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THE CANADIAN PATENT OFFICE RECORD
LA GAZETTE DU BUREAU DES BREVETS

The Canadian Patent Office Record is published on Tuesday of each week under the authority of the Commissioner of Patents, Ottawa-Gatineau, Canada, to whom all communications should be addressed.

La Gazette du Bureau des brevets paraît le mardi de chaque semaine sous l'autorité du Commissaire aux brevets, Ottawa-Gatineau, Canada, à qui doit être adressée toute correspondance.

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Notices

1. Dates and Code Numerals Appearing in Patent Headings

Dates
All dates appearing in the patent headings of this publication follow the form recommended by the International Standards Organization. The four digits on the left represent the years followed by two digits each for the months and the days. For example, January 02, 1999 will be shown as 1999-01-02.

Code Numerals
The numerals within the brackets in the patent headings are INID codes. "INID" is an acronym for "Internationally agreed Numbers for the Identification of Data". These codes are utilized to identify patent bibliography as recommended by the Permanent Committee on Industrial Property Information (PCIPI) under the administration of the World Intellectual Property Organization (WIPO) based in Geneva, Switzerland.

The INID Codes and their corresponding definitions of bibliographic data elements are as follows:

[11] - Number of Patent document
[13] - Kind-of-document code
[21] - Number assigned to the Application
[22] - Date of Filing Application or
[22] - Date of filing of related divisional application
[25] - Language in which the published application was originally filed
[30] - Data relating to priority under the Paris Convention

[41] - Open to Public Inspection Date
[45] - Date of Issue
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[51] - International Classification
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[54] - Title of Invention
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[64] - Related by Reissue
[71] - Name(s) of Applicant(s)
[72] - Name(s) of Inventor(s)
[73] - Name(s) of Grantee(s)
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[86] - PCT International Filing Data
[87] - PCT International Publication data

Avis

1. Dates et chiffres de code figurant à l'entête des brevets

Dates
Toutes dates figurant aux entêtes des brevets de cette publication suivent la forme recommandée par l'Organisation des normes internationales. Les quatre chiffres de gauche représentent les années et sont suivis, vers la droite, de deux autres chiffres chacun, pour les mois et les jours. Le 2 janvier 1999, par exemple, sera représenté par 1999-01-02.

Chiffres de code
Les chiffres à l'intérieur des parenthèses aux entêtes des brevets sont des codes INID. Le sigle « INID » signifie « Identification numérique internationale des données bibliographiques » Ces codes sont utilisés pour l'indentification de la bibliographie de brevets, tel que recommandé par le Comité permanent chargé de l'information en matière de propriété industrielle (PCIPI), sous l'administration de l'Organisation mondiale de la propriété intellectuelle (OMPI), sise à Genève, Suisse.

Les codes INID accompagnés des définitions des données bibliographiques correspondantes sont comme suit :

[11] - Numéro du brevet
[13] - Désignation du type de document
[21] - Numéro attribué à la demande
[22] - Date du dépôt de la demande ou
[22] - Date du dépôt de la demande divisionnaire apparentée
[25] - Langue dans laquelle la demande publiée a été initialement déposée
[30] - Données relatives à la priorité selon la Convention de Paris
[41] - Date de mise à la disponibilité du public
[45] - Date de délivrance
[48] - Date de correction (Redélivrance, Réexamen)
[51] - Classification internationale
[52] - Classification nationale
[54] - Titre de l'invention
[60] - Apparenté par divulgation supplémentaire
[62] - Apparenté par division
[64] - Apparenté par redélivrance
[71] - Nom(s) du (des) demandeur(s)
[72] - Nom(s) de(s) l'inventeur(s)
[73] - Nom(s) du (des) titulaire(s)
[85] - Date d'entrée en phase nationale
[86] - Données du dépôt international selon le PCT
[87] - Données de publication internationale selon le PCT

2. Country Code

The Country Codes appearing in this publication conform to those contained in annex A of the *Handbook on Industrial Property Information and Documentation* published by the World Intellectual Property Organization (WIPO). This document is accessible from a link entitled Standards ST-3 on the List of WIPO Standards, Recommendations and Guidelines (Abbreviated Titles) located on the WIPO Web site: (**www.wipo.int/scit/en/standards/standards.htm**).

2. Code des pays

Les Codes des pays qui se trouvent dans cette publication sont conformes à ceux dans l'annexe A du *Manuel sur l'information et la documentation en matière de propriété industrielle* publié par l'Organisation Mondiale de la Propriété Intellectuelle (OMPI). Ce document est accessible à partir de l'hyperlien intitulé Normes ST-3 dans la Liste des normes, recommandations et principes directeurs de l'OMPI (Titres abrégés) qui se trouve au site Web de l'OMPI: (**www.wipo.int/scit/fr/standards/standards.htm**).

3. How to Purchase Paper Copies of Canadian Patents and Canadian Applications Open to Public Inspection

Paper copies of all other Canadian Patents and Canadian applications open to public inspection may be purchased at the cost of $1 per page by visiting (**www.strategis.ic.gc.ca/patentsorder**) or by writing to the Commissioner of Patents, Ottawa-Gatineau, K1A 0C9.

Item 25.1* On requesting copy in electronic form of a document:	N/A
a) for each request	$10
b) plus, for each patent or application to which the request relates	$10
c) plus, if the copy is requested on a physical medium, for each physical medium requested in addition to the first	$10
d) plus, for each additional 10 megabytes or part of them exceeding 7 megabytes	$10

3. Comment acheter des copies sur papier de brevets canadiens et de demandes canadiennes mises à la disponibilité du public

Les copies sur papier de tous les autres brevets canadiens et des demandes canadiennes mises à la disponibilité du public peuvent être achetées au coût de 1 $ par page en visitant notre site Web (**www.strategis.ic.gc.ca/brevetscommande**) ou en écrivant au Commissaire aux brevets, Ottawa-Gatineau, K1A 0C9.

Article 25.1* Demande d'une copie d'un document sous forme électronique :	S.O.
a) pour chaque demande	10 $
b) pour chaque demande de brevet ou brevet visé par la demande	10 $
c) dans le cas où le document doit être copié sur plus d'un support matériel, pour chaque support matériel additionnel	10 $
d) pour chaque tranche de 10 méga-octets qui excède 7 méga-octets, l'excédant étant arrondi au multiple supérieur	10 $

4. Orders for Patents by Class or Sub-Class

A listing of all patents that have issued in each class or sub-class including both patents in force and expired patents, may be ordered at a price of $1 per page from the Patent Office.

4. Commande de brevets par classe ou sous-classe

Les listes de brevets délivrés dans chaque classe ou sous-classe, incluant les brevets en vigueur et ceux ayant expiré, peuvent être commandées auprès du Bureau des brevets au prix de 1 $ la page.

5. Advice on Making a Patent Application

Any person intending to file a patent application may obtain an information kit upon request from the Commissioner of Patents, Ottawa-Gatineau, Canada K1A 0C9. It is recommended that applicants make use of the services of a registered Patent Agent. A list of Patent Agents in any area of Canada will also be supplied upon request.

5. Conseils relatifs à la préparation de demandes de brevets

Toute personne qui a l'intention de déposer une demande de brevet peut obtenir une trousse d'information sur demande faite au Commissaire aux brevets, Ottawa-Gatineau, Canada K1A 0C9. On recommande aux demandeurs d'avoir recours aux services d'un agent de brevets inscrit au registre. Une liste des agents de brevets dans n'importe quelle région du Canada sera également fournie sur demande.

6. Licensing of Patents

Voluntary Licences
Persons desiring to use, make or sell an invention patented in Canada should negotiate terms with the patent owner. The address of the patentee may be obtained by writing to the Commissioner of Patents, Ottawa-Gatineau, Canada, K1A 0C9. If a voluntary licence cannot be arranged, a compulsory licence may be possible.

Compulsory Licences
Three years after a patent has been granted, one may request a compulsory licence to use the patent if there has been an abuse of the exclusive right. See Sections 65 to 71 of the *Patent Act.* Applications for a compulsory licence are made to the Commissioner of Patents.

6. Octroi de licences en vertu des brevets

Licences librement accordées
Les personnes désirant utiliser, fabriquer ou vendre une invention brevetée au Canada doivent en négocier les conditions avec le titulaire du brevet. L'adresse du titulaire peut être obtenue en écrivant au Commissaire aux brevets, Ottawa-Gatineau, Canada, K1A 0C9. S'il est impossible d'obtenir une licence résultant d'un libre accord, il est peut être possible d'obtenir une licence obligatoire.

Licences obligatoires
Il est possible de faire la demande d'une licence obligatoire trois ans après l'octroi d'un brevet si les droits exclusifs qui en dérivent ont donné lieu à un abus. Voir les articles 65 à 71 de la *Loi sur les brevets*. Les demandes de licence obligatoire doivent être présentées au Commissaire aux brevets.

7. Patents Available for Licence or Sale

An asterisk (*) placed beside any patent listed in this issue of the *Canadian Patent Office Record* indicates that as of the date of grant the said patent is available for licence or sale. These and other patents now made available for licensing are included in the listing in part 8 of these notices.

7. Brevets disponibles pour licence ou vente

Un astérisque (*) marqué à côté de tout brevet inscrit dans le présent numéro de la *Gazette du bureau des brevets*, signale qu'à compter de la date de la présente publication, ledit brevet est disponible pour octroi de licence ou vente. Une liste de ces brevets et d'autres mis en disponibilité pour octroi de licence, est publiée au no. 8 des présents avis.

8. List of Patents Available for Licence or Sale

The following Canadian patents have been made available this week for sale or licensing:

None

8. Liste des brevets disponibles pour octroi de licence ou vente

Les brevets canadiens suivants ont été mis en disponibilité cette semaine pour vente ou octroi de licence :

Aucun

9. Applications Open to Public Inspection

All patent applications filed since October 1, 1989 and documents filed in connection therewith are open to public inspection at the Patent Office after the expiration of a confidentiality period of eighteen months beginning on the filing date of the application, or where a request for priority has been made in respect to the application, beginning on the priority date claimed. An application may become open to public inspection sooner at the request or with the approval of the applicant (Section 10(2) of the *Patent Act*). However, an application shall not be open for public inspection if it is withdrawn within the time set out in Section 92 of the *Patent Rules*. This time limit is two months before the expiry of the confidentiality period or where the Commissioner is able to stop technical preparations to open the application to the public at a subsequent date.

9. Demandes mises à la disponibilité du public

Toutes les demandes de brevet et documents relatifs à ceux-ci, déposés au Bureau des brevets depuis le 1er octobre 1989, peuvent y être consultées après l'expiration de la période de confidentialité de dix-huit mois à compter de la date de dépôt de la demande de brevet ou, si une demande de priorité a été présentée à l'égard de celle-ci, de la date de dépôt sur laquelle la demande de priorité est fondée. Une demande de brevet peut être consultée avant l'expiration de la période, à la requête ou sur autorisation du demandeur (article 10(2) de la *Loi sur les brevets*). Toutefois, une demande de brevet ne pourra être consultée si celle-ci est retirée à l'intérieur du délai prévu à l'article 92 des *Règles sur les brevets*. Le délai prévu est de deux mois précédant la date d'expiration de la période de confidentialité ou, lorsque le commissaire est en mesure, à une date ultérieure, d'arrêter les préparatifs techniques en vue de la consultation de cette demande.

10. Language of Published Documents

When ordering a published patent, please note that the language of the document can be identified by the language code (INID [25]) EN (English) or FR (French).

10. Langue du document publié

Toute personne intéressée à obtenir une copie d'un brevet publié doit prendre note que les codes suivants EN (Anglais) ou FR (Français) représentent (INID [25]) la langue de la copie du brevet publié.

11. Patent Cooperation Treaty (PCT) Schedule of Fees Applicable for Applications Filed on or After June 3, 2020

1. Transmittal Fee (Rule 14)	**$300**
2. International Filing Fee	**$1961***
For each additional sheet over 30	**$22**
3. International Search Fee	**$1600**

The above mentioned fees are due at time of filing of the international application, or within one month from the international filing date (date of receipt of the international application by the receiving office). These fees are to be paid in Canadian dollars and cheques should be made payable to the Receiver General for Canada.

If the fees are not paid within one month from the international filing date, the receiving office shall invite the applicant to pay the amount required, together with a late payment fee under

11. Traité de coopération en matière de brevets (PCT) barème de taxes à partir du 3 juin 2020

1. Taxe de transmission (Règle 14)	**300 $**
2. Taxe de dépôt internationale	**1961 $***
Pour chaque feuille au delà de 30	**22 $**
3. Taxe de recherche internationale	**1600 $**

Les taxes mentionnées ci-haut sont payables au moment du dépôt de la demande internationale, ou dans un délai d'un mois à compter de la date de dépôt international, (soit la date de réception de la demande internationale par l'office récepteur). Les taxes doivent être payées en dollars canadiens et les chèques sont payables au receveur général du Canada.

Si les taxes n'ont pas été payées dans un délai d'un mois à compter de la date de dépôt international, l'office récepteur invitera le demandeur à payer le montant dû, accompagné de la

Rule 16bis.2, within one month from the date of the invitation. Failure to pay the fees will result in the withdrawal of the application by the receiving office.

4. Late payment fee
50% of the fees that are due, or,
Minimum: Transmittal fee
Maximum: 50% of the international filing fee

Preliminary Examination

5. Handling fee (Rule 57.2(*a*)) **$295**

6. Preliminary examination fee (Rule 58) **$800**

* International fees will be reduced by:

- **$295** for all applications filed electronically using PCT-SAFE or ePCT (The request in character coded format).
- **$442** for all applications filed electronically using PCT-SAFE or ePCT (The request, description, claims and abstract in character coded format).

taxe pour le paiement tardif visée à la règle 16bis.2, dans un délai d'un mois à compter de l'invitation. Si vous omettez de payer les taxes, l'office récepteur retirera votre demande.

4. Taxe pour paiement tardif
50% du montant impayé, ou,
Minimum : taxe de transmission
Maximum : 50% de la taxe de dépôt international

Examen préliminaire

5. Taxe de traitement (Règle 57.2*a*)) **295 $**

6. Taxe d'examen préliminaire (Règle 58) **800 $**

* Les frais seront réduits de:

- **295 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête étant en format à codage de caractères).
- **442 $** pour toutes les demandes déposées en utilisant PCT-SAFE ou ePCT (La requête, la description, les revendications et l'abrégé étant en format à codage de caractères).

12. PCT Notices

Patent Cooperation Treaty (PCT)

Copies of the *Patent Cooperation Treaty Applicants Guide* and the *Patent Cooperation Treaty & Regulations* are available from WIPO - World Intellectual Property Organization at a cost of 200 Swiss Francs and 18 Swiss Francs, respectively.

Those wishing for further information including prices for both previous and current subscriptions should contact WIPO at:

Information Products Section
Post Office Box 18
1211 Geneva 20 Switzerland
Telephone (011 41 22) 338-9618
Facsimile (011 41 22) 740-1812

or by "E-mail" (**publications.mail@wipo.int**) or visit their Web site (**www.wipo.int**).

12. Avis PCT

Traité de Coopération en matière de brevets (PCT)

Des copies du *Guide du déposant du PCT* ainsi que du *Traité et des Règlements* sont disponibles auprès de l'OMPI - Organisation mondiale de la propriété intellectuelle au coût de 200 francs suisses et 18 francs suisses, respectivement.

Les personnes qui désirent obtenir de plus amples renseignements, notamment sur le prix des abonnements antérieurs et courants, sont priées de s'adresser directement à :

l'OMPI à la Section des produits d'information
Boîte postale 18
1211 Genève 20 Suisse
Téléphone (011 41 22) 338-9618
Télécopieur (011 41 22) 740-1812

ou par courriel (**publications.mail@wipo.int**) ou visiter leur site Web (**www.wipo.int**).

13. Practice Notice

LIMITED PARTNERSHIPS CAN BE ENTERED ON THE REGISTER OF AGENTS AND ON THE LIST OF TRADE-MARK AGENTS

Note: *This practice notice is intended to provide guidance on current Patent and Trade-marks Office practice and interpretation of relevant legislation. However, in the event of any inconsistency between this notice and the applicable legislation, the legislation must be followed.*

The Patent Office and the Trade-marks Office (hereinafter jointly referred to as "the Offices") have been receiving inquiries as to whether limited partnerships are entitled to act as patent and trade-mark agents before the Offices.

With respect to the register of patent agents, section 15 of the *Patent Act* provides that a register of patent agents shall be kept in the Patent Office on which shall be entered the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for patents or in other business before the Patent Office. Section 2 of the *Patent Rules* stipulates that the expression "patent agent" means any person or firm whose name is entered on the register of patent agents pursuant to section 15. Paragraph 15(c) of the *Patent Rules* provides that the Commissioner shall enter on the register of patent agents, on payment of the fee set out in item 33 of Schedule II, the name of **any firm, if the name of at least one member of the firm is entered on the register.**

With respect to the list of trade-mark agents, subsection 28(2) of the *Trade-marks Act* provides that the list of trade-mark agents shall include the names of all persons and firms entitled to represent applicants in the presentation and prosecution of applications for the registration of a trade-mark or in other business before the Trade-marks Office. Paragraph 21(d) of the *Trade-mark Regulations* (1996) stipulates that the Registrar shall, on written request and payment of the fee set out in item 19 of the schedule, enter on a list of trade-mark agents the name of **any firm having the name of at least one of its members entered on the list as a trade-mark agent.**

Both the patent and trade-mark legislation therefore provide that firms may act as agents before the Offices, as long as one of their members is entered on the register or list of agents. It is generally recognised that the term "firm" includes partnerships, and the Offices have already allowed general partnerships and limited liability partnerships to be entered on the register or list of agents. The Offices consider that limited partnerships are also firms, and that they are entitled to act as agents before the

13. Énoncé de pratique

LES SOCIÉTÉS EN COMMANDITE PEUVENT ÊTRE INSCRITES AU REGISTRE DES AGENTS DE BREVETS ET SUR LA LISTE DES AGENTS DE MARQUES DE COMMERCE

Nota : *Le présent énoncé de pratique a pour but de préciser les pratiques actuelles du Bureau des brevets et du Bureau des marques de commerce et l'interprétation faite par ces derniers de certaines dispositions législatives. Toutefois, en cas de divergence entre le présent énoncé et la législation applicable, c'est la législation qui prévaudra.*

Le Bureau des brevets et le Bureau des marques de commerce (ci-après appelés conjointement « les Bureaux ») ont reçu des questions à savoir si les sociétés en commandite (en anglais « limited partnerships ») ont le droit d'agir en tant qu'agents de brevets et de marques de commerce auprès des Bureaux.

En ce qui concerne le registre des agents de brevets, l'article 15 de la *Loi sur les brevets* prévoit qu'un registre des agents de brevets est tenu au Bureau des brevets sur lequel sont inscrits les noms de toutes les personnes et entreprises ayant le droit de représenter les demandeurs dans la présentation et la poursuite des demandes de brevet ou dans toute autre affaire devant le Bureau des brevets. Aux termes de l'article 2 des *Règles sur les brevets*, « agent de brevets » s'entend de toute personne ou maison d'affaires dont le nom est inscrit au registre des agents de brevets aux termes de l'article 15. L'alinéa 15c) des *Règles sur les brevets* prévoit que le commissaire inscrit au registre des agents de brevets, moyennant paiement de la taxe prévue à l'article 33 de l'annexe II, le nom de **toute maison d'affaires dont le nom d'au moins un membre est inscrit au registre des agents de brevets**.

En ce qui concerne la liste des agents de marques de commerce, le paragraphe 28(2) de la *Loi sur les marques de commerce* prévoit que la liste des agents de marques de commerce comporte les noms des personnes et études habilitées à représenter les intéressés dans la présentation et la poursuite des demandes d'enregistrement des marques de commerce et de toute affaire devant le Bureau des marques de commerce. Aux termes de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996), le registraire, sur demande écrite et sur paiement du droit prévu à l'article 19 de l'annexe, inscrit sur la liste des agents de marques de commerce le nom de **toute firme dont le nom d'au moins un membre est inscrit sur la liste à titre d'agent de marques de commerce.**

La législation actuelle sur les brevets et celle sur les marques de commerce prévoient donc que des firmes peuvent agir en tant qu'agents auprès des Bureaux, à condition que l'un de leurs membres soit inscrit au registre ou à la liste des agents. Il est généralement admis que le terme « firme » inclut les sociétés (en anglais «partnerships ») et les Bureaux ont déjà autorisé des sociétés en nom collectif (en anglais « general partnerships») ainsi que des sociétés à responsabilité limitée

Offices.

Therefore, commencing immediately, the Offices will enter upon request, on the register or list of agents, limited partnerships that otherwise meet the requirements set out in the patent and trade-mark legislation.

The Offices, however, continue to consider that the current patent and trade-mark legislation do not allow corporations to be entered on the register or list of agents, since corporations do not have members and therefore cannot meet the requirements set out in paragraph 15(c) of the *Patent Rules* and paragraph 21(d) of the *Trade-mark Regulations* (1996).

(en anglais « limited liability partnerships ») à être inscrites au registre ou à la liste des agents. Les Bureaux considèrent que les sociétés en commandite sont aussi des firmes et qu'elles ont le droit d'agir en tant qu'agents auprès des Bureaux.

En conséquence, sur demande, les Bureaux inscriront désormais au registre, ou à la liste des agents, les sociétés en commandite qui répondent aux exigences de la *Loi sur les brevets et de la Loi sur les marques de commerce.*

Les Bureaux continuent toutefois de considérer que la législation actuelle sur les brevets et les marques de commerce ne permet pas aux compagnies (en anglais « corporations ») d'être inscrites au registre ou à la liste des agents, étant donné que les compagnies n'ont pas de membres et ne peuvent donc pas satisfaire aux exigences de l'alinéa 15c) des *Règles sur les brevets* et de l'alinéa 21d) du *Règlement sur les marques de commerce* (1996).

14. Correspondence Procedures

The correspondence procedures and the related practice for written communications to the Commissioner of Patents and the Patent Office under the Patent Act and the Patent Rules is outlined in Chapter 2 of the Manual of Patent Office Practice (MOPOP).

Web Link for MOPOP:
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/h_wr00720.html

The correspondence procedures and the related practice of written communications with respect to Trademarks and to Industrial Design can be found in the Practice Notice entitled *Correspondence Procedures*, available on CIPO's website.

CIPO Web Link for correspondence procedures pertaining to Trademarks and Industrial Design:
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr00633.html

Publication date: May 10, 2017
Amendment date: June 17, 2019

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14. Procédures de correspondance

Les procédures de correspondance et les pratiques connexes de communication écrite au commissaire aux brevets ou au Bureau des brevets en vertu de la Loi sur les brevets et des Règles sur les brevets seront exposées dans le chapitre 2 du Recueil des pratiques du Bureau des brevets (RPBB).

Lien Web pour le RPBB :
http://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/h_wr00720.html

Les procédures de correspondance et les pratiques connexes de communication écrite concernant les marques de commerce et les dessins industriels se trouvent dans le document intitulé *Procédures de correspondance*, consultable sur le site Web de l'OPIC.

Lien Web de l'OPIC pour les procédures de correspondance relatives aux marques de commerce et aux dessins industriels :
https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/fra/wr00633.html

Date de publication : 10 mai 2017
Date de modification : 17 juin 2019

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7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office
8. Intellectual Property Acts, Rules and Regulation

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office
8. Lois, règles et règlements sur la propriété intellectuelle

This notice is intended to clarify the practice of the Canadian Intellectual Property Office with respect to correspondence procedures and written communications and replaces all previous notices.

Le présent énoncé de pratique a pour but de préciser la pratique de l'Office de la propriété intellectuelle du Canada relativement aux procédures de correspondance et de communications écrites et remplace tout avis antérieur.

1. Physical Delivery of Correspondence and Written Communications to CIPO

For the purposes of sections 5 and 54 of the Patent Rules, subsection 10(1) of the Trademarks Regulations, section 2 of the Copyright Regulations, section 4 of the Industrial Design Regulations and section 3 of the Integrated Circuit Topography Regulations, the address of the Patent Office, the Office of the Registrar of Trademarks, the Copyright Office, the Industrial Design Office, and the Office of the Registrar of Topographies (hereinafter sometimes collectively referred to as "CIPO") is:

Canadian Intellectual Property Office
Place du Portage I
50 Victoria Street, Room C-114
Gatineau QC K1A 0C9

In accordance with subsections 5(2), 5(3), 54(1) and 54(2) of the Patent Rules, subsection 10(2) of the Trademarks Regulations, subsections 2(2) and (3) of the Copyright Regulations, subsection 5(1) of the Industrial Design Regulations and subsections 3(2) and (3) of the Integrated Circuit Topography Regulations, correspondence and written communications delivered to the above address between 8:30 a.m. to 4:30 p.m. (Eastern Time) Monday to Friday is deemed to have been received on the actual date of their delivery if they are delivered when CIPO is open to the public.

Correspondence delivered at a time when CIPO is closed to the public will be deemed or considered to have been received on the day on which CIPO is next open to the public.

Please be advised that once correspondence is received by CIPO it cannot be returned to the sender, even if the sender states that the correspondence was sent by mistake. Exceptionally, in cases where correspondence is related to a patent application that does not meet the requirements under subsection 27.1(1) of the Patent Act for obtaining a filing date, the documents will be returned to the sender.

The Fee Payment Form should always be submitted as a covering document and should be the only document submitted

1. Remise physique de correspondance et communications écrites à l'OPIC

Pour l'application des articles 5 et 54 des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, de l'article 2 du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et de l'article 3 du Règlement sur les topographies de circuits intégrés, l'adresse du Bureau des brevets, du Bureau du registraire des marques de commerce, du Bureau du droit d'auteur, du Bureau des dessins industriels, et du Bureau du registraire des topographies (ci-après parfois collectivement appelés « OPIC ») est la suivante :

Office de la propriété intellectuelle du Canada
Place du Portage I
50, rue Victoria, pièce C-114
Gatineau (Québec) K1A 0C9

Conformément aux paragraphes 5(2), 5(3), 54(1) et 54(2) des Règles sur les brevets, du paragraphe 10(2) du Règlement sur les marques de commerce, des paragraphes 2(2) et (3) du Règlement sur le droit d'auteur, du paragraphe 5(1) du Règlement sur les dessins industriels et des paragraphes 3(2) et (3) du Règlement sur les topographies de circuits intégrés, la correspondance et les communications écrites ayant été remises à l'adresse ci-dessus entre 8h30 et 16h30 (Heure de l'Est) du lundi au vendredi seront réputées avoir été reçues le jour de leur remise, si elles sont remises alors que l'OPIC est ouvert au public.

La correspondance remise lorsque les bureaux de l'OPIC sont fermés au public sera réputée avoir été reçue le jour de la réouverture de l'OPIC au public.

Veuillez prendre note qu'une fois que l'OPIC reçoit de la correspondance, celle-ci ne peut pas être retournée à l'expéditeur, même si l'expéditeur indique que la correspondance a été envoyée par erreur. Exceptionnellement, dans le cas où la correspondance vise une demande de brevet qui ne rencontre pas les exigences du paragraphe 27.1(1) de la Loi sur les brevets pour l'obtention d'une date de dépôt, les documents seront retournés à l'expéditeur.

Le formulaire de paiements des frais devrait toujours être

to CIPO that contains financial information, such as credit card numbers.

Download the Fee Payment Form.

fourni comme page couverture et devrait être le seul document soumis à l'OPIC contenant de l'information financière telle que les numéros de carte de crédit.

Téléchargez le formulaire de paiement des frais.

1.1 Designated Establishments

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 10(1) of the Trademarks Regulations, subsection 2(4) of the Copyright Regulations, section 4 of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the following are the designated establishments or designated offices to which correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be delivered **in person**. Please note that documents, payments and payment instructions delivered to the addresses listed below **must be enclosed in a sealed envelope** and that **no in person payment transactions** are processed on site. The ordinary business hours for each designated establishment are listed below.

- Innovation, Science and Economic Development Canada
  C.D. Howe Building
  235 Queen Street, Room S-143
  Ottawa ON K1A 0H5
  Tel.: 343-291-3436

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Sun Life Building
  1155 Metcalfe Street, Room 950
  Montreal QC H3B 2V6
  Tel.: 514-496-1797
  Toll-free: 1-888-237-3037

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  151 Yonge Street, 4th Floor
  Toronto ON M5C 2W7
  Tel.: 416-973-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday,

1.1 Établissements désignés

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise **en personne** aux établissements ou bureaux désignés suivants. Veuillez prendre note que les documents, paiements et instructions de paiements remis aux adresses énumérées ci-dessous doivent être **inclus dans une enveloppe scellée** et qu'**aucune transaction de paiement en personne** n'est traitée sur place. Les heures normales d'ouverture pour chaque établissement désigné sont indiquées ci-dessous.

- Innovation, Sciences et Développement économique Canada
  Édifice C.D. Howe
  235, rue Queen, pièce S-143
  Ottawa (Ontario) K1A 0H5
  Tél. : 343-291-3436

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Édifice Sun Life
  1155, rue Metcalfe, bureau 950
  Montréal (Québec) H3B 2V6
  Tél. : 514-496-1797
  Sans frais : 1-888-237-3037

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  151, rue Yonge, 4e étage
  Toronto (Ontario) M5C 2W7
  Tél. : 416-973-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à

except statutory holiday

- Innovation, Science and Economic Development Canada
  Canada Place
  9700 Jasper Avenue, Suite 725
  Edmonton AB T5J 4C3
  Tel.: 780-495-4782
  Toll-free: 1-800-461-2646

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

- Innovation, Science and Economic Development Canada
  Library Square
  300 West Georgia Street, Suite 2000
  Vancouver BC V6B 6E1
  Tel.: 604-666-5000

  8:30 a.m. to 4:30 p.m. (local time) Monday to Friday, except statutory holidays

l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Canada Place
  9700, avenue Jasper, pièce 725
  Edmonton (Alberta) T5J 4C3
  Tél. : 780-495-4782
  Sans frais : 1-800-461-2646

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

- Innovation, Sciences et Développement économique Canada
  Library Square
  300, rue Georgia Ouest, pièce 2000
  Vancouver (C.-B.) V6B 6E1
  Tél. : 604-666-5000

  8 h 30 à 16 h 30 (heure locale) du lundi au vendredi, à l'exception des jours fériés

In accordance with subsections 5(4), 5(5), 54(3) and 54(4) of the Patent Rules, subsection 10(3) of the Trademarks Regulations, subsections 2(4) and (5) of the Copyright Regulations, subsection 5(2) of the Industrial Design Regulations and subsections 3(4) and (5) of the Integrated Circuit Topography Regulations, correspondence delivered to a designated establishment on a day when CIPO is open to the public will be deemed or considered to be received on the day on which they are delivered to that designated establishment. If CIPO is closed to the public, correspondence will be deemed or considered to be received on the day on which CIPO is next open to the public. For example, if correspondence intended for CIPO is delivered to the designated establishment in Toronto on June 24, it will not be considered to be received on June 24 as CIPO is closed on that day (St-Jean-Baptiste Holiday in Quebec). It will be deemed received on the day on which CIPO is next open to the public.

Conformément aux paragraphes 5(4), 5(5), 54(3) et 54(4) des Règles sur les brevets, au paragraphe 10(3) du Règlement sur les marques de commerce, aux paragraphes 2(4) et (5) du Règlement sur le droit d'auteur, au paragraphe 5(2) du Règlement sur les dessins industriels et aux paragraphes 3(4) et (5) du Règlement sur les topographies de circuits intégrés, la correspondance remise à l'un des établissements désignés susmentionnés lorsque les bureaux de l'OPIC sont ouverts au public sera réputée ou considérée avoir été reçue le jour de leur remise à cet établissement désigné. Si les bureaux de l'OPIC sont fermés au public, la correspondance sera réputée ou considérée avoir été reçue à le jour de la réouverture de l'OPIC au public. Par exemple, la correspondance adressée à l'OPIC remise à l'établissement désigné de Toronto le 24 juin ne sera pas considérée avoir été reçue le 24 juin puisque les bureaux de l'OPIC sont fermés ce jour-là (la Saint-Jean Baptiste est un jour férié au Québec). La correspondance sera alors réputée avoir été reçue le jour de la réouverture des bureaux de l'OPIC au public.

1.2. Registered Mail™ and Xpresspost™ services of Canada Post

For the purposes of subsections 5(4) and 54(3) of the Patent Rules, subsection 3(4) of the Trade-marks Regulations, subsection 2(4) of the Copyright Regulations, subsection 3(4) of the Industrial Design Regulations and subsection 3(4) of the Integrated Circuit Topography Regulations, the Registered Mail™ and Xpresspost™ services of Canada Post are designated establishments or designated offices to which

1.2. Services Courrier recommandé^MC et Xpresspost^MC de Postes Canada

Pour l'application des paragraphes 5(4) et 54(3) des Règles sur les brevets, du paragraphe 10(1) du Règlement sur les marques de commerce, du paragraphe 2(4) du Règlement sur le droit d'auteur, de l'article 4 du Règlement sur les dessins industriels et du paragraphe 3(4) du Règlement sur les topographies de circuits intégrés, les services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont des établissements ou des

correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be delivered.

CIPO considers that correspondence delivered through the Registered Mail™ and Xpresspost™ services of Canada Post is received by CIPO on the day indicated on the mailing receipt provided by Canada Post, or if CIPO is closed for business on that day, on the day when CIPO is next open for business.

bureaux désignés auxquels la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être remise.

L'OPIC considère que la correspondance remise par l'entremise des services Courrier recommandé^MC et Xpresspost^MC de Postes Canada sont reçus par l'OPIC le jour indiqué sur le reçu de confirmation de Postes Canada, en autant que l'OPIC soit ouvert au public ce jour-là. Si l'OPIC est fermé au public ce jour-là, la correspondance sera réputée ou considérée avoir été reçue le jour de réouverture de l'OPIC au public.

2. Electronic Correspondence

For the purposes of section 8.1 of the Patent Act, subsection 64(1) of the Trademarks Act, subsection 24.1(1) of the Industrial Design Act and in accordance with subsections 5(6), 54(5), and 68(3) of the Patent Rules, subsection 10(4) of the Trademarks Regulations, subsection 2(6) of the Copyright Regulations, subsection 10(3) of the Industrial Design Regulations, and subsection 3(6) of the Integrated Circuit Topography Regulations, correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent by facsimile, online or on an electronic medium only as provided in the current notice.

In accordance with subsection 54(5) of the Patent Rules, the request for national entry is the only correspondence addressed to the Commissioner in respect of an international application that can be submitted online or on an electronic medium with the exception of sequence listings, applications prepared using the PCT-SAFE software or prepared using WIPO's ePCT online service as specified in the current notice. Other correspondence submitted online or on an electronic medium in respect of international applications that have not entered the national phase will not be accepted.

Subsection 10(5) of the Trademarks Regulations specifies certain categories of correspondence to which the provisions of subsection 10(4) do not apply.

Correspondence sent by facsimile or online to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies constitutes the original, therefore a duplicate paper copy should not be forwarded.

Correspondence delivered to the Commissioner of Patents by electronic means of transmission, including facsimile, will be considered to be received on the day that it is transmitted if delivered and received before midnight local time at CIPO on a day when CIPO is open for business. When CIPO is closed for business, correspondence delivered on that day will be considered to be received on the next day on which CIPO is

2. Correspondance électronique

Pour l'application de l'article 8.1 de la Loi sur les brevets, du paragraphe 64(1) de la Loi sur les marques de commerce, du paragraphe 24.1(1) de la Loi sur les dessins industriels, et conformément aux paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, au paragraphe 10(4) du Règlement sur les marques de commerce, au paragraphe 2(6) du Règlement sur le droit d'auteur, au paragraphe 10(3) du Règlement sur les dessins industriels et au paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise par télécopieur, en ligne ou à l'aide d'un support électronique et ce, seulement de la manière indiquée dans le présent énoncé.

Conformément au paragraphe 54(5) des Règles sur les brevets, la demande d'entrée en phase nationale d'une demande internationale est la seule correspondance adressée au commissaire qui peut être présentée en ligne ou sur support électronique, à l'exception des listages de séquences, des demandes préparées à l'aide du logiciel PCT-SAFE ou préparées à l'aide du service en ligne ePCT de l'OMPI, tel qu'indiqué dans le présent avis. Toute autre correspondance présentée en ligne ou sur support électronique relativement à des demandes internationales qui ne sont pas entrées dans la phase nationale ne sera pas acceptée.

Le paragraphe 10(5) du Règlement sur les marques de commerce prévoit certaines catégories de correspondance auxquelles les dispositions du paragraphe 10(4) ne s'appliquent pas.

La correspondance envoyée par télécopieur ou en ligne au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies constitue une version originale. Par conséquent, un duplicata sur support papier ne devrait pas être expédié.

La correspondance livrée au commissaire aux brevets et reçue par voie électronique, y compris par télécopieur, est considérée comme ayant été reçue à l'OPIC le jour même de sa transmission, si elle est livrée avant minuit, heure locale,

open for business.

Correspondence delivered to the Registrar of Trademarks or the Industrial Design Office by electronic means of transmission, including facsimile, is deemed to have been received on the day on which CIPO receives it (Eastern Time).

lorsque les bureaux de l'OPIC sont ouverts au public. Si elle est transmise un jour où les bureaux de l'OPIC sont fermés au public, elle est considérée comme ayant été reçue à la date du jour d'ouverture suivant de l'OPIC.

La correspondance fournie au registraire des marques de commerce ou transmise au Bureau des dessins industriels par voie électronique, y compris par télécopieur, est réputée avoir été reçue le jour ou l'OPIC l'a reçue (Heure de l'Est).

2.1 Facsimile

Black and white facsimile correspondence addressed to the Commissioner of Patents, the Registrar of Trademarks, the Copyright Office, the Industrial Design Office or the Registrar of Topographies may be sent to the following facsimile numbers:

(819) 953-CIPO (2476) or (819) 953-OPIC (6742)

Colour facsimile correspondence addressed to the Registrar of Trademarks or the Industrial Design Office **must** be sent to the following facsimile number:

(819) 934-3833

Note that the model of facsimile is a Xerox C505/X and that this information may be needed to ensure a successful colour transmission.

Facsimile correspondence that is sent to any facsimile number other than those indicated above, including those of a designated establishment, will be considered not to have been received.

Evidence submitted by facsimile in respect of an opposition or section 45 proceeding **will not be accepted** due to issues such as the often-poor quality of transmission, the risk of incomplete transmission and the voluminous nature of the documents.

The electronic transmittal report returned to you following your facsimile transmission will constitute your acknowledgment receipt. Confidentiality of the facsimile transmission process cannot be guaranteed. Please note that CIPO strongly discourages the use of a computer facsimile interface or internet-based facsimile services due to technical issues with reception.

When submitting by facsimile a document that also has a fee requirement, notification of the preferred mode of payment to be applied must be prominently displayed on the Fee Payment Form to ensure expedient processing.

2.1 Correspondance par télécopieur

La correspondance en noir et blanc par télécopieur adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur, au Bureau des dessins industriels ou au registraire des topographies peut être transmise aux numéros ci-dessous :

819-953-OPIC (6742) ou 819-953-CIPO (2476)

La correspondance en couleur par télécopieur (modèle **:** Xerox C505/X) adressée au registraire des marques de commerce ou au Bureau des dessins industriels doit être transmise au numéro ci-dessous :

(819) 934-3833

À noter que le modèle de télécopieur est un Xerox C505/X; information qui peut être nécessaire afin de compléter une transmission en couleur.

La correspondance qui est transmise par télécopieur à tout autre numéro de télécopieur que ceux qui sont indiqués ci-dessus, y compris ceux d'établissements désignés, sera considérée comme n'ayant pas été reçue.

Les éléments de preuve présentés par télécopieur dans le cadre d'une procédure d'opposition ou de radiation en vertu de l'article 45 de la Loi **ne seront pas acceptés** en raison des inconvénients reliés à la mauvaise qualité de la transmission, au risque que la transmission soit incomplète et à la nature volumineuse de ces documents.

Le rapport de transmission électronique que vous recevrez après votre transmission par télécopieur constituera votre accusé de réception. La confidentialité du processus de transmission électronique ne peut pas être garantie. Veuillez noter que l'OPIC décourage fortement l'utilisation d'une interface de télécopie par ordinateur ou de services de télécopie par le biais d'internet étant donné les problèmes techniques probables avec la réception.

Lors de la transmission par télécopieur d'un document comprenant une demande d'acquittement de droit ou taxe, il faut clairement indiquer le mode de paiement préféré sur le formulaire de paiements des frais afin d'assurer un traitement rapide.

Patents

The document presentation requirements set out in sections 69 and 70 of the Patent Rules apply to facsimile correspondence.

Brevets

Les exigences relatives à la présentation des documents énoncées aux articles 69 et 70 des Règles sur les brevets s'appliquent à la correspondance par télécopieur.

2.2 Online

Correspondence addressed to the Commissioner of Patents, the Registrar of Trade-marks, the Copyright Office or the Registrar of Topographies may be sent electronically using the relevant links below.

2.2 En ligne

La correspondance adressée au commissaire aux brevets, au registraire des marques de commerce, au Bureau du droit d'auteur ou au registraire des topographies peut être transmise par voie électronique.

Patents

For the purpose of subsection 5(6) of the Patent Rules, correspondence addressed to the Commissioner may be sent electronically by accessing the following pages:

- filing an application (regular application);
- filing a request for national entry;
- filing an international application (PCT Safe or ePCT);
- general correspondence relating to applications and patents;
- maintaining the name of a patent agent on the register of patent agents; and
- ordering copies in paper, or electronic form of a document.

Brevets

Pour l'application du paragraphe 5(6) des Règles sur les brevets, la correspondance adressée au commissaire peut être envoyée par voie électronique, notamment en accédant aux pages suivantes :

- déposer une demande (demande régulière);
- déposer une demande d'entrée dans la phase nationale;
- déposer une demande internationale (PCT Safe ou ePCT);
- correspondance générale concernant des demandes et des brevets;
- maintien du nom d'un agent de brevets dans le registre des agents de brevets;
- commande de copies papier ou d'un document sous forme électronique.

Canada as Receiving Office Under the PCT: PCT-SAFE

Pursuant to PCT Rule 89bis, CIPO, in its role as a receiving Office, accepts the electronic filing of an international application prepared using the latest version of the WIPO's PCT-Safe software and applications prepared using WIPO's ePCT online service. Filing in both cases must be done using CIPO's International Filing e-service, called PCT E-Filing.

Note: Correspondence related to PCT international applications can not be sent electronically to CIPO. Correspondence may be sent by mail, by facsimile or delivered by hand to CIPO or to a designated establishment.

Le Canada comme office récepteur au titre du PCT : PCT-SAFE et ePCT

Conformément à la Règle 89bis du PCT, l'OPIC, à titre d'office récepteur, accepte le dépôt d'une demande internationale préparée à l'aide de la plus récente version du logiciel PCT-SAFE de l'OMPI, et d'une demande préparée à l'aide du service en ligne ePCT de l'OMPI. Dans les deux cas, le dépôt doit se faire à l'aide du service électronique de dépôt de demandes internationales de l'OPIC, appelé Dépôt en ligne de demandes PCT.

Note: La correspondance liée aux demandes internationales PCT ne peut être envoyée par voie électronique à l'OPIC. La correspondance peut être envoyée par courrier, par télécopieur ou remis en mains à l'OPIC ou à un établissement désigné.

Trademarks

For the purpose of subsection 10(4) of the Trademarks Regulations, the following correspondence addressed to the Registrar of Trademarks may be sent electronically by

Marques de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce peut être envoyés par voie électronique, notamment en accédant aux pages suivantes

accessing the following pages:

- filing a new or revised trademark application;
- renewal of a trademark registration;
- request to enter a name on the list of trademark agents;
- annual renewal of a trademark agent;
- requesting copies of trademark documents;
- registration of a trademark application;

For the purpose of subsection 10(4) of the Trademarks Regulations, correspondence addressed to the Registrar of Trademarks in the context of opposition and section 45 proceedings may be sent electronically by accessing the Trademarks Opposition Board's online web application:

Opposition proceedings before the Trademarks Opposition Board

- filing a statement of opposition;
- filing of a counter statement;
- submission of the opponent's evidence, or statement;
- submission of the applicant's evidence, or statement;
- submission of the opponent's reply evidence;
- submission of the opponent's written representations, or statement;
- submission of the applicant's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

Section 45 proceedings before the Trademarks Opposition Board

- filing a request for a section 45 notice;
- submission of the registered owner's evidence;
- submission of the requesting party's written representations, or statement;
- submission of the registered owner's written representations, or statement;
- filing a request for a hearing; and
- requesting an extension of time.

:

- nouvelle demande ou demande modifiée d'enregistrement de marque de commerce;
- renouvellement de l'enregistrement d'une marque de commerce;
- demande d'inscription d'un nom à la liste des agents de marques de commerce;
- renouvellement annuel d'un agent de marques de commerce;
- commande de copies de documents de marques de commerce,
- l'enregistrement d'une marque de commerce

Pour l'application du paragraphe 10(4) du Règlement sur les marques de commerce, la correspondance adressée au registraire des marques de commerce dans le cadre des procédures d'opposition ou de radiation en vertu de l'article 45 peut être envoyée par voie électronique en accédant à l'application web en ligne de la Commission des oppositions des marques de commerce.

Procédures d'opposition devant la Commission des oppositions des marques de commerce

- production d'une déclaration d'opposition;
- Production d'une contre-déclaration d'opposition;
- Production de la preuve de l'opposant, ou d'une déclaration;
- Production de la preuve du requérant, ou d'une déclaration;
- Production de la contre-preuve de l'opposant;
- Production des arguments écrits de l'opposant, ou déclarations;
- Soumission des arguments écrits du requérant, ou déclarations;
- Produire une demande pour une audience; et
- demande de prolongation de délai.

Procédures en vertu de l'article 45 devant la Commission des oppositions des marques de commerce

- Production d'une demande pour un avis en vertu de l'article 45;
- Production de la preuve du propriétaire inscrit;
- Production des arguments écrits de la demanderesse, ou déclaration;
- Production des arguments écrits du propriétaire inscrit, ou déclaration;
- Produire une demande pour une audience; et
- Demande de prolongation de délai.

For the purpose of subsection 2(6) of the Copyright Regulations, the following correspondence addressed to the Copyright Office may be sent electronically, by accessing the following pages:

- application for registration of a copyright in a work,
- application for registration of a copyright in a performer's performance, sound recording or a communication signal;
- filing a grant of interest;
- request for certificate of correction;
- ordering copies in paper, or electronic form of a document; and
- general correspondence relating to copyright.

Pour l'application du paragraphe 2(6) du Règlement sur le droit d'auteur, la correspondance indiquée ci-dessous qui est adressée au Bureau du droit d'auteur peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un droit d'auteur sur une œuvre,
- demande d'enregistrement d'un droit d'auteur sur une prestation, un enregistrement sonore ou un signal de communication;
- dépôt d'une concession d'intérêt;
- demande de certificat de correction;
- commande de copies des documents papier ou électroniques et
- correspondance générale relative aux droits d'auteur.

Industrial Designs

For the purpose of subsection 24.1(1) of the Industrial Design Act, the following correspondence addressed to the Industrial Design Office may be sent electronically, by accessing the following pages:

- application for registration of an industrial design;
- ordering copies in paper, or electronic form of a document;
- general correspondence relating to industrial designs; and
- payment of industrial design maintenance fees.

Dessins industriels

Pour l'application du paragraphe 24.1(1) de la Loi sur les dessins industriels, la correspondance indiquée ci-dessous qui est adressée au Bureau des dessins industriels peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- demande d'enregistrement d'un dessin industriel;
- commande de copies de documents papier ou électroniques;
- correspondance générale relative aux dessins industriels; et
- paiement des droits de maintien des dessins industriels.

Integrated Circuit Topographies

For the purpose of subsection 3(6) of the Integrated Circuit Topography Regulations, the following correspondence addressed to the Registrar of Topographies may be sent electronically, by accessing the following page:

- general correspondence relating to integrated circuit topographies.

Topographies de circuits intégrés

Pour l'application du paragraphe 3(6) du Règlement sur les topographies de circuits intégrés, la correspondance indiquée ci-dessous qui est adressée au registraire des topographies peut être transmise par voie électronique, notamment en accédant aux pages suivantes :

- correspondance générale relative aux topographies de circuits intégrés.

2.3 Electronic medium

Note: all electronic media must be free of worms, viruses or other malicious content. Files with malicious content will be deleted.

2.3 Supports électroniques

Note : Les supports électroniques doivent être exempts de ver informatique, de virus, ou de tout autre contenu malveillant. Les fichiers qui comprennent du contenu malveillant seront supprimés.

Brevets

Patents

The Patent Office will accept correspondence on various types of electronic medium as specified below. The electronic medium should contain a table of contents and be provided with a cover letter, which will be date stamped by CIPO and placed in the application file. Filing date requirements prescribed in the Patent Rules still remain.

When submitted on an electronic medium, the parts of the application must be logically broken down in files, which are no larger than 25 megabytes.

With regards to sequence listings under Rule 111 of the Patent Rules, the electronic medium must be separate from any electronic medium which may be filed containing parts of the application itself or amendment(s) thereof.

Le Bureau des brevets acceptera la correspondance transmise à l'aide de divers supports électroniques, tel qu'indiqué ci-dessous. Le support électronique devrait contenir une table des matières et être accompagné d'une lettre explicative, laquelle sera datée par l'OPIC et placée dans le dossier de la demande. Les exigences relatives à la date de dépôt énoncées dans les Règles sur les brevets resteront applicables.

Les parties d'une demande qui sont présentées sur support électronique doivent être logiquement réparties en fichiers de 25 mégaoctets au maximum.

En ce qui concerne les listages des séquences prévus à l'article 111 des Règles sur les brevets, le support électronique doit être distinct de tout support électronique qui peut être déposé et qui contient des parties de la demande elle-même ou des modifications relatives à la demande.

Canada as Receiving Office Under the PCT: Electronic Filing of Sequence Listings

Pursuant to PCT Rules 89bis and 89ter, and in accordance with Part 7 of the PCT Administrative Instructions, where an international application contains disclosure of one or more nucleotide and/or amino acid sequence listings, CIPO, in its role as a receiving Office, accepts that the sequence listing part of the description and/or any table related to the sequence listing(s) be filed, at the option of the applicant:

i. only on an electronic medium in electronic form in accordance with section 702 of Part 7 of the PCT Administrative Instructions; or
ii. both on an electronic medium in electronic form and on paper in accordance with section 702 of Part 7 of the PCT Administrative Instructions;

provided that the other elements of the international application are filed as otherwise provided for under the PCT.

The sequence listing part of an international application filed in electronic form and related tables filed in electronic form shall comply with the relevant provisions of Annex C and C-bis of the PCT Administrative Instructions respectively.

For this purpose the Canadian receiving Office will accept any electronic media specified in Annex F of the PCT Administrative Instructions. Where both the sequence listing and the tables are filed in electronic form, the listing and the tables shall be contained on separate electronic media, which shall contain no other programs or files.

For the purpose of processing the international application, the Canadian receiving Office requires two (2) additional copies of

Le Canada comme office récepteur au titre du PCT : Dépôt électronique des listages de séquences

Conformément aux Règles 89bis et 89ter du PCT et à la Partie 7 des Instructions administratives du PCT, lorsqu'une demande internationale contient la divulgation d'un ou de plusieurs listages des séquences de nucléotides et/ou d'acides aminés, à titre d'office récepteur l'OPIC accepte le dépôt de la partie de la description contenant les listages des séquences et/ou de tout tableau relatif aux listages des séquences et ce, à la discrétion du requérant :

i. seulement sous forme électronique et sur support électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT, ou

ii. sur support papier et sur support électronique sous forme électronique, conformément à l'article 702 de la Partie 7 des Instructions administratives du PCT,

à condition que les autres éléments de la demande internationale soient déposés conformément aux dispositions du PCT.

Dans une demande internationale déposée sous forme électronique, la partie qui contient le listage des séquences et les tableaux connexes seront conformes aux dispositions pertinentes de l'Annexe C et de l'Annexe C-bis des Instructions administratives du PCT, respectivement.

À cette fin, l'office récepteur canadien acceptera tout support électronique prévu à l'Annexe F des Instructions administratives du PCT. Lorsque le listage des séquences et les tableaux sont déposés sous forme électronique, ils le seront sur des supports électroniques distincts ne contenant pas d'autres programmes ni fichiers.

the electronic media containing the sequence listing and/or tables in electronic form, accompanied by a statement that the sequence listings and/or tables contained in the copies are identical to those in electronic form as filed.

For further details concerning the filing of sequence listings and/or tables in electronic form, including the labeling of the electronic media and the calculation of the international filing fee, refer to section 7 of the PCT Administrative Instructions.

Aux fins du traitement de la demande internationale, l'office récepteur canadien exige deux (2) copies supplémentaires du support électronique contenant le listage de séquences et/ou les tableaux sous forme électronique, accompagnées d'une déclaration indiquant que le listage des séquences et/ou les tableaux contenus dans les copies sont identiques à ceux qui ont été déposés sous forme électronique.

On trouvera à l'article 7 des Instructions administratives du PCT des détails supplémentaires sur le dépôt de listages des séquences et/ou de tableaux sous forme électronique, notamment sur l'étiquetage des supports électroniques et le calcul de la taxe de dépôt internationale.

Electronic Media accepted by the Patent Office

The Patent Office will accept 3.5 inch diskette, CD-ROM, CD-R, DVD, DVD-R and any format as specified in Annex F of the PCT Administration Instructions.

Trademarks and Industrial Design

The Office of the Registrar of Trademarks and the Industrial Design Office will accept the following types of electronic media: CD-ROM, CD-R, DVD, DVD-R, and USB stick.

Supports électroniques acceptés par le Bureau des brevets

Le Bureau de brevets acceptera des disquettes 3,5 pouces, CD-ROM, CD-R, DVD, DVD-R et tout format spécifié à l'Annexe F des Instructions administratives du PCT.

Marques de commerce et dessins industriels

Le Bureau du registraire des marques de commerce et le Bureau des dessins industriels acceptent les supports électroniques suivants : CD ROM, CD-R, DVD, DVD-R, et clé USB.

3. Details Concerning the Electronic Formats Accepted

Patents

In accordance with section 8.1 of the Patent Act, and for the purposes of subsections 5(6), 54(5), and 68(3) of the Patent Rules, the acceptable file formats for documents submitted electronically site using the relevant links set out in section 2.2 of these correspondence procedures or on electronic media are TIFF and PDF. In order to get a correspondence date, the office will accept documents initially filed in other formats provided they are viewable with the software "Stellent Quick View Plus 8.0.0". In these cases, the office will request the documents to be replaced by documents in PDF or TIFF and the submission of a statement to the effect that the replacement documents are the same as the documents initially filed.

Sequence listings can be initially provided in TIFF, PDF or in ASCII file formats. However, as a completion requirement according to section 94 of the Patent Rules, a sequence listing in the ASCII format compliant with the "PCT sequence listing standard" has to be submitted. Therefore, CIPO encourages applicants to submit the sequence listings in the ASCII format in the first place.

When applicable, the Patent Office will accept files in the

3. Précisions concernant les formats électroniques acceptés

Brevets

Conformément à l'article 8.1 de la Loi sur les brevets et aux fins des paragraphes 5(6), 54(5) et 68(3) des Règles sur les brevets, les formats de fichiers acceptables pour les documents présentés par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance ou sur support électronique sont les formats TIFF et PDF. Pour qu'une date de correspondance soit attribuée, le Bureau acceptera des documents initialement déposés dans d'autres formats à condition qu'ils soient consultables à l'aide du logiciel « Stellent Quick View Plus 8.0.0 ». Dans de tels cas, le Bureau exigera le remplacement des documents par des fichiers en format PDF ou TIFF, ainsi qu'une déclaration indiquant que ces fichiers sont identiques aux documents initialement déposés.

Les listages des séquences peuvent être initialement déposés sous forme de fichiers TIFF, PDF ou ASCII. Toutefois, afin de compléter la demande, conformément à l'article 94 des Règles sur les brevets, un listage des séquences en format ASCII conforme à la Norme PCT de listage des séquences devra être présenté. L'OPIC encourage donc les demandeurs à déposer les listages de séquences en format ASCII dès le départ.

TIFF, PDF and ASCII format when they comply with the following specifications:

TIFF Format:

- TIFF CCITT Group 4, single or multi-page, black and white;
- Resolution of either 300 or 400 dpi;
- The dimensions of the scanned/stored images should match that of the paper requirements, namely 8 ½" by 11" or A4.

PDF Format:

- Adobe Portable Document Format Version 1.4 compatible;
- Non-compressed text to facilitate searching;
- Unencrypted text;
- No embedded OLE objects;
- All fonts must be embedded and licensed for distribution.

ASCII

- Shall be encoded using IBM Code Page 437, IBM Code Page 932 or a compatible code page.

Le cas échéant, le Bureau des brevets acceptera des fichiers en format TIFF, PDF et ASCII s'ils sont conformes aux spécifications suivantes :

Format TIFF

- TIFF CCITT Groupe 4, une ou plusieurs pages, noir et blanc
- Résolution : 300 ou 400 ppp
- Les dimensions des images balayées par scanner ou mémorisées doivent être compatibles avec celles qui sont requises pour les papiers, soit 8 1/2 po par 11 po ou A4.

Format PDF

- Compatible avec Adobe Portable Document Format Version 1.4
- Texte non comprimé, pour faciliter la recherche
- Texte non chiffré
- Pas d'objets OLE incorporés
- Toutes les polices de caractère doivent être incorporées et leur distribution doit être autorisée.

ASCII

- Le texte sera encodé à l'aide des pages de codes IBM 437 ou IBM 932 ou d'une page de codes compatible.

Trademarks

For the purposes of subsection 64(1) of the Trademarks Act, the acceptable file formats for documents submitted electronically using the relevant links set out in section 2.2 of these correspondence procedures are: PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP and Doc.

Industrial Design

For the purposes of subsection 24.1(1) of the Industrial Design Act, the acceptable file formats for documents, other than a representation of a design, submitted electronically are WPD, DOC, DOCX and PDF. The acceptable file formats for the representation of a design are PDF, JPEG, TIFF and GIF. The file size limit is of 60MB for PDF, 10MB for the other file formats. The scanned/stored images should be of a resolution of at least 300 dpi and the dimensions must be of 21.59 cm by 27.94 cm (8.5 in by 11 in).

Note that the conversion of files to an acceptable format may result in a change to the quality of the drawings.

Marques de commerce

Pour l’application du paragraphe 64(1) de la Loi sur les marques de commerce, les formats de fichiers acceptables pour les documents fournis par un moyen électronique énoncé à la section 2.2 des présentes procédures de correspondance sont : PNG, TIFF, JPEG, GIF, MP3, MP4, PDF, BMP et Doc.

Dessins industriels

Pour l’application du paragraphe 24.1(1) de la Loi sur les dessins industriels, les formats de fichiers acceptables pour les documents autres que la représentation d’un dessin, transmis par voie électronique sont : WPD, DOC, DOCX, PDF. Les formats de fichiers acceptables pour la représentation d’un dessin sont PDF, JPEG, TIFF, et GIF. La taille maximale est de 60MB pour le format PDF et de 10MB pour tout autre format. L’image numérisée/stockée devrait être dans une résolution d’au moins 300 dpi et les dimensions doivent être de 21,59 cm par 27,94 cm (8,5 po par 11po)

Veuillez noter que la conversion de fichiers vers un format acceptable pourrait résulter en un changement à la qualité des dessins.

4. General Information

General information may be obtained by communicating with CIPO's Client Service Centre.

4. Renseignements généraux

Des renseignements généraux peuvent être obtenus en communiquant avec le Centre de services à la clientèle de l'OPIC.

5. Time Period Extensions

- Time period extensions under the Patent, Trademarks and Industrial Design Acts
- Time period extensions under the Copyright and Integrated Circuit Topography Acts
- Time period extensions under the Patent Cooperation Treaty
- Time period extensions under the Madrid Protocol and the Hague Agreement

5. Prorogation des délais

- Prorogation des délais en vertu des les Lois sur les brevets, les marques de commerce, et les dessins industriels
- Prorogation des délais en vertu des les Lois sur le droit d'auteur et les topographies de circuits intégrés
- Prorogation des délais en vertu du le Traité de coopération en matière de brevets
- Prorogation des délais en vertu du Protocole de Madrid et de l'Arrangement de La Haye

Time period extensions under the Patent, Trademarks and Industrial Design Acts

For the purposes of subsection 78(1) of the Patent Act, subsection 66(1) of the Trademarks Act, and subsection 21(1) of the Industrial Design Act, any time period fixed under those Acts and ending on 1) a **prescribed day** set out in the list below or 2) a **designated day** on account of unforeseen circumstances, will be extended to the next day that is not a prescribed day or a designated day and where CIPO is open to the public.

Designated days are those days that are designated by the Commissioner, the Registrar, or the Minister, on account of unforeseen circumstances and if they are satisfied that it is in the public interest to do so. If a day is designated, the public will be informed of that fact on CIPO's website.

Prescribed days under the Patent Act, Trademarks Act and Industrial Design Act are as follows:

- Every Saturday and Sunday;
- New Year's Day (January 1)*;
- Good Friday;
- Easter Monday;
- Victoria Day: First Monday immediately preceding May 25;
- St. Jean Baptiste Day (June 24)*;
- Canada Day (July 1)*;
- The first Monday in August;***
- Labour Day: First Monday in September;
- Thanksgiving Day: Second Monday in October;

Prorogation des délais prévus par les Lois sur les brevets, les marques de commerce, et les dessins industriels

Pour l'application du paragraphe 78(1) de la Loi sur les brevets, du paragraphe 66(1) de la Loi sur les marques de commerce, et du paragraphe 21(1) de la Loi sur les dessins industriels, tout délai fixé sous le régime de ces lois et qui expire 1) un **jour prescrit ou règlementaire** tel qu'indiqué dans la liste ci-dessous, ou 2) un **jour désigné** en raison de circonstances imprévues, sera prorogé jusqu'au jour suivant qui n'est ni un jour prescrit ni un jour désigné et où l'OPIC est ouvert au public.

Les **jours désignés** sont les jours désignés par le commissaire, le registraire, ou le ministre, où, en raison de circonstances imprévues, s'il est dans l'intérêt public de le faire. Si un jour est désigné, le public en sera informé sur le site web de l'OPIC.

Les **jours prescrits ou règlementaires** en vertu de la Loi sur les brevets, de la Loi sur les marques de commerce et de la Loi sur les dessins industriels sont les suivants :

- Tous les samedis et dimanches;
- Nouvel An (1er janvier)*;
- Vendredi Saint;
- Lundi de Pâques;
- Fête de la Reine ou Journée nationale des patriotes : Premier lundi immédiatement avant le 25 mai;
- Saint-Jean-Baptiste (24 juin)*;
- Fête du Canada (1er juillet)*;
- Le premier lundi du mois d'août***;
- Fête du travail : Premier lundi du mois de septembre;

- Remembrance Day (November 11)*;
- Christmas Day (December 25)**;
- Boxing Day (December 26)** ;
- Any day on which CIPO is closed to the public for all or part of that day during ordinary business hours.

*In the case of New Year's Day, St. Jean Baptiste Day, Canada Day and Remembrance Day, if the day falls on a Saturday or Sunday, deadlines will be extended to the following Tuesday.

**If December 25 falls on a Friday, deadlines will be extended to the following Tuesday. If December 25 falls on a Saturday or Sunday, any time periods ending on December 25 or December 26 will be extended to the following Wednesday.

***Please note that the Office is open to the public on the first Monday in August. Any time period which expires on that day will be extended to the next day the Office is open to the public (first Tuesday in August). However, any correspondence or fees submitted to the Office on that day will be deemed or considered received on that day.

Extensions for prescribed days occur regardless of place of residence or of the establishment to which documents are delivered.

Please be aware that not all provincial and territorial holidays are days where deadlines are extended. It is recommended that clients be mindful and ensure that all deadlines are respected.

- Action de Grâce : Deuxième lundi du mois d'octobre;
- Jour du Souvenir (11 novembre)*;
- Jour de Noël (25 décembre)**;
- Lendemain de Noël** ;
- Tout jour où l'OPIC est fermé au public pendant tout ou une partie des heures normales d'ouverture de l'OPIC au public.

*Si le Nouvel An, la Saint-Jean-Baptiste, la Fête du Canada, ou le Jour du Souvenir est un samedi ou un dimanche, les délais seront prorogés au mardi suivant.

**Si le 25 décembre est un vendredi, les délais seront prorogés au mardi suivant. Si le 25 décembre est un samedi ou un dimanche, les délais seront prorogés au mercredi suivant.

***Veuillez noter que les Bureaux sont ouverts au public le premier lundi du mois d'août. Tout délai qui expire ce jour-là sera prorogé au prochain jour ouvrable (premier mardi du mois d'août). Cependant, toute correspondance, droits ou taxes fournis au Bureau ce jour-là seront réputés ou considéré avoir été reçus à cette date.

La prorogation de délai concernant les jours prescrits ou règlementaires s'appliquent nonobstant du lieu de résidence ou du lieu de l'établissement auquel les documents ont été remis.

Veuillez noter que ce ne sont pas tous les jours fériés provinciaux ou territoriaux qui sont des jours prescrits ou règlementaires pour lesquels un délai peut être prorogé. Il est recommandé que les clients soient attentifs et s'assurent que tout délai soit respecté.

Time period extensions under the Copyright and Integrated Circuit Topography Acts

In accordance with section 26 of the Interpretation Act, any person choosing to deliver a document to CIPO or a designated establishment (including the Registered Mail™ and Xpresspost™ services of Canada Post) where a federal, provincial or territorial holiday exists, is entitled to an extension of any time limit for the filing of the document that expires on the holiday, until the next day that is not a holiday. It is to be noted, in respect of provincial and territorial holidays, that the entitlement to the extension is dependent on the establishment to which the document is delivered and not on the place of residence of the person for whom the document is filed or of their agent. For this purpose, documents transmitted to CIPO by electronic means, including by facsimile, would be considered to be delivered to CIPO's offices in Gatineau, Quebec.

CIPO has no practical way of keeping track of the establishment to which documents are delivered. Accordingly,

Prorogation des délais prévus par les Lois sur le droit d'auteur et sur les topographies de circuits

Selon l'article 26 de la Loi d'interprétation, lorsqu'une personne choisit de livrer un document à l'OPIC ou à un établissement désigné (y compris un bureau régional d'Innovation, Sciences et Développement économique Canada ou le service Courrier recommandé℠, ou par Xpresspost℠ de Postes Canada) dans une province où il y a un jour férié fédéral, provincial ou territorial, tout délai fixé pour le dépôt du document, qui expire un jour férié peut être prorogé jusqu'au jour non férié suivant. Dans le cas d'un jour férié provincial ou territorial, il convient de souligner que le droit à la prorogation dépend de l'établissement auquel le document est livré et non du lieu de résidence de la personne pour laquelle le document est déposé ou de son agent. À cet égard, les documents envoyés à l'OPIC par un moyen électronique, y compris par télécopieur, sont réputés être livrés aux bureaux de l'OPIC à Gatineau, au Québec.

En pratique, l'OPIC n'a aucun moyen de faire le suivi relativement aux établissements auxquels des documents sont

where a person has a time limit for the filing of a document that expires on a provincial or territorial holiday but only delivers the document on the next day that is not a holiday, CIPO will assume that the document was delivered to an establishment that would justify an extension of the time limit. In such circumstances, it will be the responsibility of the person filing the document to ensure that he or she is properly entitled to any needed extension of the time limit.

Time period extensions under the Patent Cooperation Treaty

Rule 80.5 of the Regulations under the PCT provides:

If the expiration of any period during which any document or fee must reach a national Office or intergovernmental organization falls on a day:

i. on which such Office or organization is not open to the public for the purposes of the transaction of official business;

ii. on which ordinary mail is not delivered in the locality in which such Office or organization is situated;

iii. which, where such Office or organization is situated in more than one locality, is an official holiday in at least one of the localities in which such Office or organization is situated, and in circumstances where the national law applicable by that Office or organization provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day; or

iv. which, where such Office is the government authority of a Contracting State entrusted with the granting of patents, is an official holiday in part of that Contracting State, and in circumstances where the national law applicable by that Office provides, in respect of national applications, that, in such a case, such period shall expire on a subsequent day;

the period shall expire on the next subsequent day on which none of the said four circumstances exists.

Time period extensions under the Madrid Protocol and the Hague Agreement

If a period within which a communication must be received by the International Bureau of the World Intellectual Property Office would expire on a day on which the International

livrés. Par conséquent, si le délai pour le dépôt d'un document tombe un jour férié provincial ou territorial et qu'une personne le livre seulement le jour non férié suivant, l'OPIC tiendra pour acquis que le document a été livré à un établissement qui justifierait une prorogation du délai. Dans de telles circonstances, il incombe au déposant de s'assurer qu'il a droit à une telle prorogation.

Prolongations de délais prévus au Traité de coopération en matière de brevets

La règle 80.5 du Règlement d'exécution du PCT prévoit ce qui suit :

Si un délai quelconque pendant lequel un document ou une taxe doit parvenir à un office national ou à une organisation intergouvernementale expire un jour :

i. où cet office ou cette organisation n'est pas ouvert au public pour traiter d'affaires officielles;

ii. où le courrier ordinaire n'est pas délivré dans la localité où cet office ou cette organisation est situé;

iii. qui, lorsque cet office ou cette organisation est situé dans plus d'une localité, est un jour férié dans au moins une des localités dans lesquelles cet office ou cette organisation est situé, et dans le cas où la législation nationale applicable par cet office ou cette organisation prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant; ou

iv. qui, lorsque cet office est l'administration gouvernementale d'un État contractant chargée de délivrer des brevets, est un jour férié dans une partie de cet État contractant, et dans le cas où la législation nationale applicable par cet office prévoit, à l'égard des demandes nationales, que, dans cette situation, ce délai prend fin le jour suivant;

Le délai prend fin le premier jour suivant auquel aucune de ces quatre circonstances n'existe plus.

Prorogation des délais en vertu du Protocole de Madrid et de l’Arrangement de La Haye

Si un délai à l’intérieur duquel une communication doit être reçue par le Bureau international de l’Organisation mondiale de propriété intellectuelle expire un jour où le Bureau international n’est pas ouvert au public, le délai expirera lors du

Bureau is not open to the public, it will expire on the next subsequent day on which the International Bureau is open. Likewise, if the period within which a communication (such as a notification of refusal of protection) must be sent by CIPO to the International Bureau would expire on a day on which CIPO is not open to the public, it will expire on the next subsequent day on which CIPO is open.

A list of the days on which the International Bureau is closed to the public during the current and the following calendar year is available on the WIPO website.

premier jour suivant où le Bureau international est ouvert au public. Similairement, si un délai à l'intérieur duquel une communication (tel qu'une notification de refus de la protection) doit être envoyée par l'OPIC au Bureau international expire un jour où les bureaux de l'OPIC sont fermés au public, ce délai expirera lors du premier jour suivant la réouverture de l'OPIC.

Une liste des jours pendant lesquels le Bureau international est fermé au public pendant l'année civile en cours et à venir est disponible sur le site web de l'OMPI.

6. Procedures in Case of an Unexpected Office Closure at CIPO

In case of unforeseen circumstances, CIPO will attempt to remain open to the public and ensure that essential service to our clients continues with the least possible disruption or delay.

In accordance with paragraph 27.01(n) of the Patent Rules, paragraph 15(n) of the Trademarks Regulations and paragraph 36(n) of the Industrial Design Regulations, whenever CIPO is closed to the public, for all or part of a day during ordinary business hours, including closures due to extraordinary circumstances, time periods will be extended to the next day that is not a prescribed or a designated day and where CIPO is open to the public.

For Copyright and Integrated Circuit Topography, if CIPO is closed to the public due to extraordinary circumstances, CIPO considers all time limits to be extended until the next day that it is open to the public. In such situations, mail delivered to CIPO or to designated establishments will be considered to be received on the date that CIPO re-opens to the public, with the exception of correspondence addressed to the Registrar of Topographies.

In view of the date-sensitive nature of intellectual property (IP), clients are advised to address important deadlines ahead of time to minimize the risk of affecting their IP rights. For the purposes of such deadlines, unless otherwise notified, clients should assume that all due dates remain in effect.

When possible during an emergency, information and search systems will continue to be available on our website; however, services provided through the Client Service Centre and other support areas within CIPO may be temporarily unavailable. Should an emergency occur, CIPO will post information with respect to service interruptions on our website as it becomes available and as circumstances permit.

Clients are **strongly encouraged** to send date-sensitive material through Canada Post by Registered Mail™ or Xpresspost™ or to use electronic means using the relevant links set out in section 2.2 of these correspondence procedures. Documents may continue to be faxed to CIPO at 819-953-CIPO (953-2476). Date-sensitive material requiring fee

6. Procédures en cas de fermeture des bureaux

Lors de circonstances imprévues, l'OPIC s'efforcera de demeurer ouvert au public et d'assurer un service essentiel à ses clients, et ce, avec le moins d'interruption ou de retard possible.

Conformément à l'alinéa 27.01n) des Règles sur les Brevets, l'alinéa 15n) du Règlement sur les marques de commerce et de l'alinéa 36n) du Règlement sur les dessins industriels, lorsque les bureaux de l'OPIC sont fermés au public pendant toute ou une partie des heures normales d'ouverture, y compris une fermeture en raison de circonstances extraordinaires, les délais seront prorogés au jour suivant qui ne sera pas un jour prescrit ou un jour désigné et où l'OPIC est ouvert au public .

Pour les droits d'auteur et les topographies de circuits intégrés, si les bureaux de l'OPIC sont fermés au public en raison de circonstances extraordinaires, l'OPIC considère que tous les délais sont prorogés au prochain jour d'ouverture au public. Dans de telles circonstances, le courrier livré à l'OPIC ou à des établissements désignés sera considéré avoir été reçu à la date du jour de la réouverture de l'OPIC au public, à l'exception de la correspondance adressée au registraire des topographies.

Étant donné **l'importance que revêtent les délais** en matière de propriété intellectuelle (PI), il est recommandé aux clients de minimiser les risques pouvant nuire à leurs droits en matière de PI en tenant compte à l'avance des dates limites importantes. En ce qui a trait aux délais prescrits, les clients doivent respecter toutes les dates d'échéance, à moins d'avis contraire.

En situation d'urgence, les systèmes d'information et de recherche resteront, dans la mesure du possible, accessibles à partir de notre site Web. Toutefois, les services fournis par le Centre de services à la clientèle et les autres services de soutien de l'OPIC pourraient temporairement ne pas être offerts. En situation d'urgence, l'OPIC va publier les renseignements nécessaires sur notre page d'interruptions des services, lorsque ceux-ci seront disponibles et les circonstances le permettront.

Les clients sont **fortement encouragés** de faire parvenir les documents assujettis à des délais précis par Postes Canada par Courrier recommandé[MC], par Xpresspost[MC] ou par voie électronique en utilisant les liens spécifiés à l'article 2.2 des présentes procédures de correspondance. Il est toujours

payment that is sent by fax must be accompanied by a VISA™, MasterCard™, or American Express™ credit card number, or CIPO deposit account number.

Please note that there may also be instances in which the designated offices may be temporarily closed, yet CIPO remains open to the public. In such situations, it remains **the responsibility of CIPO's clients** to ensure that all deadlines are respected.

possible de transmettre par télécopieur des documents à l'OPIC en composant le 819-953-OPIC (953-6742). Cependant, les documents assujettis à des délais pour lesquels des droits ou taxes sont exigés, qui sont envoyés par télécopieur, doivent être accompagnés d'un numéro de carte VISA[MC], Mastercard[MC] ou American Express[MC] ou d'un numéro de compte de dépôt à l'OPIC.

Veuillez noter qu'il pourrait y avoir des cas où les bureaux régionaux seraient fermés temporairement, mais où l'OPIC resterait ouvert au public. Le cas échéant, **les clients de l'OPIC demeurent responsables** du respect de tous les échéanciers.

7. Procedures when CIPO is Open to the Public but Clients are Unable to Communicate with the Office

Patents, Industrial Design, Copyright and Integrated Circuit Topography

The legislative framework in relation with the abovementioned types of intellectual property does not provide CIPO with the flexibility to extend deadlines when it is open to the public but clients are unable to communicate with the Office.

In these situations it remains the responsibility of clients to ensure that all deadlines are respected.

Trademarks

The Trademarks Act and Regulations allow clients to request a retroactive extension of time when a due date has been missed due to a force majeure type situation. In order for a retroactive extension of time to be granted, the Registrar of Trademarks must be satisfied that the failure to do the act or apply for an extension of time before the original due date was not reasonably avoidable. A prescribed fee is required in certain cases.

7. Procédures à suivre lorsque l'Office est ouvert au public, mais les clients sont incapables de communiquer avec l'Office

Brevets, dessins industriels, droit d'auteur et topographies de circuits intégrés

Le cadre législatif en rapport aux types de propriété intellectuelle mentionnés ci-haut ne donne pas à l'OPIC la flexibilité de proroger les délais lorsque l'Office est ouvert au public, mais les clients sont dans l'impossibilité de communiquer avec le l'Office.

Dans une telle situation, les clients demeurent tenus de veiller à ce que les échéances soient respectées.

Marques de commerce

La Loi sur les marques de commerce et le Règlement sur les marques de commerce permettent aux clients de demander une prolongation rétroactive lorsqu'un délai n'a pas été respecté en raison d'un cas de force majeure. Pour qu'une prolongation de délai rétroactive soit accordée, le registraire des marques de commerce doit être convaincu que l'omission d'accomplir l'acte ou de demander la prorogation avant la date initiale d'échéance n'était pas raisonnablement évitable. Un droit prescrit est exigé dans certains cas.

8. Intellectual property acts, rules and regulations

- Copyright Act
- Copyright Regulations
- Industrial Design Act
- Industrial Design Regulations
- Integrated Circuit Topography Act
- Integrated Circuit Topography Regulations
- Interpretation Act
- Patent Act

8. Lois, règles et règlements sur la propriété intellectuelle

- Loi sur le droit d'auteur
- Règlement sur le droit d'auteur
- Loi sur les dessins industriels
- Règlement sur les dessins industriels
- Loi sur les topographies de circuits intégrés
- Règlement sur les topographies de circuits intégrés
- Loi d'interprétation
- Loi sur les brevets
- Règles sur les brevets

- Patent Rules
- Regulations under the PCT
- Trademarks Act
- Trademarks Regulations

- Règlement d'exécution du PCT
- Loi sur les marques de commerce
- Règlement sur les marques de commerce

15. Canadian Applications Open to Public Inspection

The *Canadian Patent Office Record* of April 2, 2024 contains applications open to public inspection from March 17, 2024 to March 23, 2024.

15. Demandes canadiennes mises à la disponibilité du public

La *Gazette du bureau des brevets* du 2 avril 2024 contient les demandes disponibles au public pour consultation pour la période du 17 mars 2024 au 23 mars 2024.

Canadian Patents Issued

April 2, 2024

Brevets canadiens délivrés

2 avril 2024

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[11] **2,751,332**
[13] C
[51] **Int.Cl. C12N 5/073 (2010.01)**
[25] EN
[54] **CULTURE MEDIUM FOR EPITHELIAL STEM CELLS AND ORGANOIDS COMPRISING SAID STEM CELLS**
[54] **MILIEU DE CULTURE POUR CELLULES SOUCHES EPITHELIALES ET ORGANOIDES COMPRENANT LESDITES CELLULES SOUCHES**
[72] SATO, TOSHIRO, NL
[72] CLEVERS, JOHANNES CAROLUS, NL
[72] HUCH ORTEGA, MERITXELL, NL
[73] KONINKLIJKE NEDERLANDSE AKADEMIE VAN WETENSCHAPPEN, NL
[85] 2011-08-02
[86] 2010-02-03 (PCT/NL2010/000017)
[87] (WO2010/090513)
[30] EP (09151970.2) 2009-02-03
[30] US (61/149,622) 2009-02-03
[30] EP (09171831.2) 2009-09-30

---

[11] **2,841,764**
[13] C
[51] **Int.Cl. G06Q 30/0601 (2023.01) G06Q 40/08 (2012.01) G06Q 30/0283 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PREDICTING AND PRESENTING A CROSS-SELL PRODUCT**
[54] **SYSTEME ET METHODE DE PREDICTION ET PRESENTATION D'UN PRODUIT INTERDISTRIBUE**
[72] BOGLE, JERRY R., US
[72] TAUBERT, SCOTT E., US
[72] SENNETT, MARGARET A., US
[73] STATE FARM MUTUAL AUTOMOBILE INSURANCE COMPANY, US
[86] (2841764)
[87] (2841764)
[22] 2014-02-05
[30] US (13/766,503) 2013-02-13

---

[11] **2,867,282**
[13] C
[51] **Int.Cl. G01N 33/50 (2006.01) A61K 31/5377 (2006.01) A61P 35/00 (2006.01) C12N 9/10 (2006.01) C12N 15/54 (2006.01) C12Q 1/48 (2006.01) C12Q 1/68 (2018.01) G01N 33/574 (2006.01)**
[25] EN
[54] **INHIBITORS OF HUMAN EZH2, AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE EZH2 HUMAIN ET PROCEDES D'UTILISATION ASSOCIES**
[72] KUNTZ, KEVIN WAYNE, US
[72] KNUTSON, SARAH KATHLEEN, US
[72] WIGLE, TIMOTHY JAMES NELSON, US
[73] EPIZYME, INC., US
[85] 2014-09-12
[86] 2013-03-12 (PCT/US2013/030565)
[87] (WO2013/138361)
[30] US (13/418,242) 2012-03-12

---

[11] **2,899,516**
[13] C
[51] **Int.Cl. G01N 29/00 (2006.01) B01D 21/00 (2006.01) B03D 1/00 (2006.01)**
[25] EN
[54] **A FLOTATION TANK SENSOR**
[54] **CAPTEUR DE BASSIN DE FLOTTATION**
[72] STIRLING, ROBERT SIDNEY, AU
[72] VIVAKANANTHAM, RAVI, AU
[73] BINMARTINE PTY LTD, AU
[85] 2015-07-28
[86] 2014-01-29 (PCT/AU2014/000055)
[87] (WO2014/117213)
[30] AU (2013900270) 2013-01-29

---

[11] **2,902,172**
[13] C
[51] **Int.Cl. C07K 16/24 (2006.01)**
[25] EN
[54] **ANTI-IL-33 ANTIBODIES AND USES THEREOF**
[54] **ANTICORPS ANTI-IL-33 ET LEURS UTILISATIONS**
[72] MURPHY, ANDREW J., US
[72] PAPADOPOULOS, NICHOLAS J., US
[72] ORENGO, JAMIE M., US
[73] REGENERON PHARMACEUTICALS, INC., US
[85] 2015-08-20
[86] 2014-03-12 (PCT/US2014/023930)
[87] (WO2014/164959)
[30] US (61/778,687) 2013-03-13
[30] US (61/819,018) 2013-05-03

---

[11] **2,909,510**
[13] C
[51] **Int.Cl. C07D 277/06 (2006.01) A61K 31/426 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHODS AND COMPOSITIONS FOR GAMMA-GLUTAMYL CYCLE MODULATION**
[54] **PROCEDES ET COMPOSITIONS POUR UNE MODULATION DE CYCLE GAMMA-GLUTAMYLE**
[72] RUBIN, DAVID, US
[72] RUBIN, EYAL, US
[73] CANCER RESEARCH TECHNOLOGY, LLC, US
[85] 2015-10-14
[86] 2014-03-15 (PCT/US2014/030053)
[87] (WO2014/145314)
[30] US (61/801,709) 2013-03-15

[11] **2,910,552**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR PROBABILISTIC OBJECT TRACKING OVER TIME**
[54] **SYSTEME ET PROCEDE DE SUIVI PROBABILISTE D'UN OBJET AU FIL DU TEMPS**
[72] MANTIUK, RADOSLAW, PL
[72] BAZYLUK, BARTOSZ, PL
[72] MANTIUK, RAFAL, GB
[73] MIRAMETRIX INC., CA
[85] 2015-10-28
[86] 2014-04-29 (PCT/IB2014/061090)
[87] (WO2014/178005)
[30] US (61/817,189) 2013-04-29

---

[11] **2,910,855**
[13] C
[51] **Int.Cl. C07K 16/30 (2006.01)**
[25] EN
[54] **TARGETING O-ACETYLATED GD2 GANGLIOSIDE AS A NEW THERAPEUTIC AND DIAGNOSTIC STRATEGY FOR CANCER STEM CELLS CANCER**
[54] **CIBLAGE DU GANGLIOSIDE GD2 O-ACETYLE COMME NOUVELLE STRATEGIE THERAPEUTIQUE ET DIAGNOSTIQUE DANS LE CANCER A CELLULES SOUCHES TUMORALES**
[72] BIRKLE, STEPHANE, FR
[72] COCHONNEAU, DENIS, FR
[72] DORVILLIUS, MYLENE, FR
[72] LE DOUSSAL, JEAN-MARC, FR
[72] TERME, MICKAEL, FR
[73] OGD2 PHARMA, FR
[73] NANTES UNIVERSITE, FR
[85] 2015-10-28
[86] 2014-04-29 (PCT/EP2014/001142)
[87] (WO2014/177271)
[30] EP (13002268.4) 2013-04-29

---

[11] **2,910,984**
[13] C
[51] **Int.Cl. A61N 1/378 (2006.01)**
[25] EN
[54] **IMPLANT RECHARGER HANDSHAKING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ETABLISSEMENT DE LIAISON DE CHARGEUR D'IMPLANT**
[72] SHELTON, BRIAN M., US
[72] DEARDEN, BRIAN R., US
[72] WOLFE, JAMES H., US
[73] ALFRED E. MANN FOUNDATION FOR SCIENTIFIC RESEARCH, US
[85] 2015-10-29
[86] 2014-05-05 (PCT/US2014/036853)
[87] (WO2014/179813)
[30] US (61/819,453) 2013-05-03

---

[11] **2,912,066**
[13] C
[51] **Int.Cl. G06Q 20/28 (2012.01)**
[25] EN
[54] **SYSTEM AND METHOD OF RELOADING PREPAID CARDS**
[54] **SYSTEME ET METHODE DE RECHARGE DE CARTES PREPAYEES**
[72] POMEROY, JEFF, US
[72] LISTER, JONATHAN, CA
[72] CAMPOS, TOMAS A., US
[73] BLACKHAWK NETWORK, INC., US
[86] (2912066)
[87] (2912066)
[22] 2015-11-13
[30] US (62/079,507) 2014-11-13
[30] US (62/082,011) 2014-11-19

---

[11] **2,920,628**
[13] C
[51] **Int.Cl. G01J 5/04 (2006.01) G01J 5/20 (2006.01)**
[25] FR
[54] **ELECTROMAGNETIC RADIATION DETECTION DEVICE WITH AN AIRTIGHT ENCAPSULATION STRUCTURE INCLUDING A RELEASE VENT**
[54] **DISPOSITIF DE DETECTION DE RAYONNEMENT ELECTROMAGNETIQUE A STRUCTURE D'ENCAPSULATION HERMETIQUE A EVENT DE LIBERATION**
[72] DUMONT, GEOFFROY, FR
[72] CARLE, LAURENT, FR
[72] IMPERINETTI, PIERRE, FR
[72] POCAS, STEPHANE, FR
[72] YON, JEAN-JACQUES, FR
[73] COMMISSARIAT A L'ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES, FR
[86] (2920628)
[87] (2920628)
[22] 2016-02-10
[30] FR (15 51 489) 2015-02-20

---

[11] **2,923,437**
[13] C
[51] **Int.Cl. H04L 9/32 (2006.01) H04L 9/28 (2006.01)**
[25] EN
[54] **RESOURCE LOCATORS WITH KEYS**
[54] **ADRESSES UNIVERSELLES DOTEES DE CLES**
[72] ROTH, GREGORY BRANCHEK, US
[72] BRANDWINE, ERIC JASON, US
[73] AMAZON TECHNOLOGIES, INC., US
[85] 2016-03-04
[86] 2014-09-23 (PCT/US2014/057043)
[87] (WO2015/048039)
[30] US (14/037,282) 2013-09-25

[11] **2,926,094**
[13] C
[51] **Int.Cl. C12N 15/64 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **DELIVERY METHODS AND COMPOSITIONS FOR NUCLEASE-MEDIATED GENOME ENGINEERING**
[54] **PROCEDES D'ADMINISTRATION ET COMPOSITIONS POUR GENIE GENOMIQUE MEDIE PAR NUCLEASE**
[72] HOLMES, MICHAEL C., US
[72] WANG, JIANBIN, US
[73] SANGAMO THERAPEUTICS, INC., US
[85] 2016-03-31
[86] 2014-10-16 (PCT/US2014/060931)
[87] (WO2015/057980)
[30] US (61/892,348) 2013-10-17
[30] US (62/033,424) 2014-08-05

[11] **2,930,540**
[13] C
[51] **Int.Cl. G08B 29/02 (2006.01) G08B 13/22 (2006.01) G08B 19/00 (2006.01)**
[25] EN
[54] **MAINTENANCE PLAN FORECAST USING AUTOMATION CONTROL DEVICES' USAGE PATTERN THROUGH BIG DATA ANALYTICS**
[54] **PREVISION DE PLAN D'ENTRETIEN AU MOYEN DE MOTIF D'UTILISATION DE COMMANDE D'AUTOMATISATION PAR L'INTERMEDIAIRE D'ANALYSE DE DONNEES GLOBALES**
[72] MARAKKANNU, SAKTHI PRAKASH, US
[72] JOSEPH, VIBGY, US
[72] SIVAKUMAR, BALAJI BHATHEY, US
[73] HONEYWELL INTERNATIONAL INC., US
[86] (2930540)
[87] (2930540)
[22] 2016-05-18
[30] US (14/730,952) 2015-06-04

[11] **2,935,560**
[13] C
[51] **Int.Cl. C12P 5/02 (2006.01) B09B 3/00 (2022.01) B09B 5/00 (2006.01) C02F 3/28 (2006.01) C02F 11/04 (2006.01)**
[25] EN
[54] **PRODUCTION OF BIOGAS FROM ORGANIC MATERIALS**
[54] **PRODUCTION DE BIOGAZ A PARTIR DE MATIERES ORGANIQUES**
[72] DE LIMA VASCONCELLOS, MARCELO, DE
[72] JOSSE, JUAN CARLOS, US
[73] ANAERGIA INC., CA
[86] (2935560)
[87] (2935560)
[22] 2016-07-08
[30] US (62/194,471) 2015-07-20

[11] **2,938,083**
[13] C
[51] **Int.Cl. B01D 53/047 (2006.01) B01D 53/52 (2006.01)**
[25] EN
[54] **PROCESS FOR GAS SEPARATIONS USING ZEOLITE SSZ-13**
[54] **PROCEDE DE SEPARATION DES GAZ AU MOYEN DE ZEOLITE SSZ-13**
[72] THOMPSON, JOSHUA ALLEN, US
[73] CHEVRON U.S.A. INC., US
[86] (2938083)
[87] (2938083)
[22] 2016-08-05
[30] US (14/849657) 2015-09-10

[11] **2,938,229**
[13] C
[51] **Int.Cl. C04B 41/89 (2006.01)**
[25] EN
[54] **HOT DUST RESISTANT ENVIRONMENTAL BARRIER COATINGS**
[54] **REVETEMENTS PROTECTEURS ENVIRONNEMENTAUX RESISTANT AUX POUSSIERES CHAUDES**
[72] LUTHRA, KRISHAN LAL, US
[72] MESCHTER, PETER JOEL, US
[72] RAMASWAMY, VIDYA, US
[72] CAO, HONGBO, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (2938229)
[87] (2938229)
[22] 2016-08-04
[30] US (14/826,765) 2015-08-14

[11] **2,941,587**
[13] C
[51] **Int.Cl. E21B 17/10 (2006.01) E21B 7/04 (2006.01)**
[25] EN
[54] **MONOLITHIC BLADE STABILISER TOOL FOR DRILL STRING**
[54] **OUTIL STABILISATEUR DE LAME MONOLITHIQUE DESTINE A UN TRAIN DE TIGES DE FORAGE**
[72] NEWMAN, MICHAEL THOMAS, NL
[73] EUROPEAN DRILLING PROJECTS B.V., NL
[86] (2941587)
[87] (2941587)
[22] 2016-09-13
[30] EP (15185136) 2015-09-14

[11] **2,943,696**
[13] C
[51] **Int.Cl. F21K 9/60 (2016.01) F21K 9/68 (2016.01) F21K 9/69 (2016.01) F21S 8/00 (2006.01) F21V 13/04 (2006.01) F21V 17/12 (2006.01) H01Q 1/06 (2006.01)**
[25] EN
[54] **LIGHT INDICATOR**
[54] **INDICATEUR LUMINEUX**
[72] DI GIOVINE, ALFONSO, IT
[72] DI GIOVINE, MARIA CRISTINA, IT
[73] C & E S.R.L., IT
[86] (2943696)
[87] (2943696)
[22] 2016-09-29
[30] IT (202015000058322) 2015-10-05

[11] **2,945,898**
[13] C
[51] **Int.Cl. C12P 19/34 (2006.01) C12Q 1/6844 (2018.01) C12Q 1/6848 (2018.01) C12N 15/10 (2006.01)**
[25] FR
[54] **METHOD FOR SYNTHESISING NUCLEIC ACIDS, IN PARTICULAR LONG NUCLEIC ACIDS, USE OF SAID METHOD AND KIT FOR IMPLEMENTING SAID METHOD**
[54] **PROCEDE DE SYNTHESE D'ACIDES NUCLEIQUES, NOTAMMENT D'ACIDES NUCLEIQUES DE GRANDE LONGUEUR, UTILISATION DU PROCEDE ET KIT POUR LA MISE EN OEUVRE DU PROCEDE**
[72] YBERT, THOMAS, FR
[72] GARIEL, SYLVAIN, FR
[73] DNA SCRIPT, FR
[85] 2016-10-14
[86] 2015-04-15 (PCT/FR2015/051022)
[87] (WO2015/159023)
[30] FR (1453455) 2014-04-17

[11] **2,948,317**
[13] C
[51] **Int.Cl. B01F 35/71 (2022.01) B01F 25/90 (2022.01) B01F 35/214 (2022.01) B01F 35/221 (2022.01)**
[25] EN
[54] **MIXING DEVICE, MIXING HOPPER AND DOSING CONTAINER**
[54] **DISPOSITIF DE MELANGE, TREMIE DE MELANGE ET RECIPIENT DE DOSAGE**
[72] ZUIDEMA, CASPER JOHAN, NL
[72] ZUIDEMA, HETTE, NL
[73] ZUIDEMA, CASPER JOHAN, NL
[85] 2016-11-07
[86] 2015-05-08 (PCT/NL2015/050325)
[87] (WO2015/170986)
[30] NL (2012786) 2014-05-08

[11] **2,951,598**
[13] C
[51] **Int.Cl. H02P 9/10 (2006.01) H02P 25/022 (2016.01) H02J 3/40 (2006.01) H02K 19/38 (2006.01) H02P 1/46 (2006.01)**
[25] EN
[54] **MULTIPLE GENERATOR SYNCHRONOUS ELECTRICAL POWER DISTRIBUTION SYSTEM**
[54] **SYSTEME DE DISTRIBUTION D'ALIMENTATION ELECTRIQUE SYNCHRONE A PLUSIEURS GENERATEURS**
[72] BLACKWELDER, MARK JON, US
[72] RANCURET, PAUL M., US
[73] ROLLS-ROYCE NORTH AMERICAN TECHNOLOGIES, INC., US
[86] (2951598)
[87] (2951598)
[22] 2016-12-13
[30] US (15/299051) 2016-10-20
[30] US (62/369191) 2016-07-31
[30] US (62/369184) 2016-07-31
[30] US (62/267143) 2015-12-14

[11] **2,952,880**
[13] C
[51] **Int.Cl. G01S 19/42 (2010.01) G01P 13/00 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS TO DETERMINE ACTIONABLE POSITION AND SPEED**
[54] **PROCEDE ET APPAREIL POUR DETERMINER UNE POSITION ET UNE VITESSE ACTIONNABLES**
[72] MCFARLAND, SCOTT, US
[72] GRIFFITH, KEITH, US
[72] SELTZER, RICK, US
[73] RADIO SYSTEMS CORPORATION, US
[86] (2952880)
[87] (2952880)
[22] 2016-12-22
[30] US (14/985,793) 2015-12-31

[11] **2,953,930**
[13] C
[51] **Int.Cl. F16J 15/10 (2006.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR LOW PROFILE SEAL**
[54] **SYSTEME, METHODE ET APPAREIL DESTINES A UN JOINT PROFILE**
[72] CLAPPER, JOSHUA E., US
[72] DEAN, ROY, US
[72] MAGARGAL, JOHN R., US
[73] WESTLAKE PIPE & FITTINGS CORPORATION, US
[86] (2953930)
[87] (2953930)
[22] 2017-01-06
[30] US (62/277,357) 2016-01-11

[11] **2,955,897**
[13] C
[51] **Int.Cl. G01D 5/353 (2006.01) G01H 9/00 (2006.01)**
[25] EN
[54] **DISTRIBUTED OPTICAL FIBRE SENSORS**
[54] **CAPTEURS A FIBRES OPTIQUES REPARTIS**
[72] HANDEREK, VINCENT, GB
[73] VIAVI SOLUTIONS INC., US
[85] 2017-01-20
[86] 2015-07-17 (PCT/GB2015/052071)
[87] (WO2016/012760)
[30] GB (1413242.7) 2014-07-25

[11] **2,958,885**
[13] C
[51] **Int.Cl. B25J 9/16 (2006.01) B25J 9/18 (2006.01) B25J 11/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FLEXIBLE HUMAN-MACHINE COLLABORATION**
[54] **SYSTEME ET PROCEDE POUR COLLABORATION HOMME-MACHINE SOUPLE**
[72] GUERIN, KELLEHER, US
[72] HAGER, GREGORY D., US
[72] RIEDEL, SEBASTIAN, DE
[73] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2017-02-21
[86] 2015-08-28 (PCT/US2015/047394)
[87] (WO2016/036593)
[30] US (14/475,184) 2014-09-02

[11] **2,962,282**
[13] C
[51] **Int.Cl. B23K 35/24 (2006.01) B22F 1/00 (2022.01) B22F 3/16 (2006.01) B23K 1/00 (2006.01)**
[25] EN
[54] **PRESINTERED BRAZING**
[54] **BRASAGE PREALABLEMENT FRITTE**
[72] LECHIEN, JEFF, US
[73] METALDYNE, LLC, US
[85] 2017-03-22
[86] 2015-11-23 (PCT/US2015/062161)
[87] (WO2016/081936)
[30] US (62/082,736) 2014-11-21

[11] **2,962,734**
[13] C
[51] **Int.Cl. H04L 45/74 (2022.01) H04L 61/106 (2022.01) H04L 61/2503 (2022.01) H04L 67/12 (2022.01) H04L 69/22 (2022.01)**
[25] EN
[54] **IP ADDRESS TRANSLATION FOR TACTICAL NETWORKS**
[54] **TRADUCTION D'ADRESSE IP POUR RESEAUX TACTIQUES**
[72] SCHRECKE, GREGORY S., US
[72] DAVIDSON, STEVE, US
[72] KAHN, MATT A., US
[72] WANG, MU-CHENG, US
[72] HENRY, MARK W., US
[73] RAYTHEON COMPANY, US
[85] 2017-03-27
[86] 2015-07-28 (PCT/US2015/042443)
[87] (WO2016/053454)
[30] US (14/499,835) 2014-09-29

[11] **2,964,829**
[13] C
[51] **Int.Cl. A24F 40/42 (2020.01) A24B 15/167 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **ELECTRONIC VAPOUR PROVISION SYSTEM AND CARTOMISER THEREFOR HAVING A CONTAINER OF PROTONATED NICOTINE SOLUTION**
[54] **SYSTEME DE FOURNITURE DE VAPEUR ELECTRONIQUE ET CARTOMISEUR POUR CELUI-CI MUNI D'UN RECIPIENT CONTENANT UNE SOLUTION A BASE DE NICOTINE PROTONEE**
[72] MCADAM, KEVIN GERARD, GB
[72] BRUTON, CONNOR, GB
[72] TRANI, MARINA, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2017-04-18
[86] 2015-11-06 (PCT/GB2015/053369)
[87] (WO2016/071706)
[30] GB (1419866.7) 2014-11-07

[11] **2,965,752**
[13] C
[51] **Int.Cl. C12Q 1/6806 (2018.01) C12N 15/10 (2006.01) C12Q 1/68 (2018.01) G01N 1/34 (2006.01) G01N 1/40 (2006.01) G01N 33/483 (2006.01) G01N 33/574 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD FOR THE ENRICHMENT OF CIRCULATING TUMOR DNA**
[54] **PROCEDE D'ENRICHISSEMENT D'UN ADN TUMORAL CIRCULANT**
[72] MICALLEF, JACOB VINCENT, BE
[72] HERZOG, MARIELLE, BE
[72] ECCLESTON, MARK EDWARD, BE
[73] BELGIAN VOLITION SRL, BE
[85] 2017-04-25
[86] 2015-10-29 (PCT/GB2015/053238)
[87] (WO2016/067029)
[30] GB (1419225.6) 2014-10-29
[30] GB (1419299.1) 2014-10-30

[11] **2,966,814**
[13] C
[51] **Int.Cl. C12N 9/14 (2006.01)**
[25] EN
[54] **SELECTIVE ACTIVATION OF A THERMOSTABLE HYDROLASE USING A TEMPERATURE SENSITIVE INHIBITOR**
[54] **ACTIVATION SELECTIVE D'UNE HYDROLASE THERMOSTABLE AU MOYEN D'UN INHIBITEUR SENSIBLE A LA TEMPERATURE**
[72] BOSMANS, GEERTRUI, BE
[72] FIERENS, ELLEN, BE
[72] BRIJS, KRISTOF, BE
[72] DELCOUR, JAN, BE
[72] VERTE, FABIENNE, BE
[72] GEORIS, JACQUES, BE
[72] DORGEO, VALERIE, BE
[72] ARNAUT, FILIP, BE
[73] PURATOS NV, BE
[85] 2017-05-04
[86] 2015-11-26 (PCT/EP2015/077816)
[87] (WO2016/083527)
[30] BE (2014/5092) 2014-11-28

[11] **2,968,534**
[13] C
[51] **Int.Cl. H04B 7/145 (2006.01) H04B 10/25 (2013.01) H04B 7/185 (2006.01)**
[25] EN
[54] **COMMUNICATION METHOD AND SYSTEM THAT USES LOW LATENCY/LOW DATA BANDWIDTH AND HIGH LATENCY/HIGH DATA BANDWIDTH PATHWAYS**
[54] **PROCEDE ET SYSTEME DE COMMUNICATION QUI UTILISENT DES VOIES A FAIBLE LATENCE/LARGE BANDE PASSANTE ET A FORTE LATENCE/LARGE BANDE PASSANTE**
[72] BABICH, KEVIN, US
[73] SKYWAVE NETWORKS, LLC, US
[85] 2017-05-19
[86] 2015-12-08 (PCT/US2015/064474)
[87] (WO2016/094392)
[30] US (14/566,851) 2014-12-11
[30] US (14/843,391) 2015-09-02

[11] **2,968,543**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) G01N 33/53 (2006.01)**
[25] EN
[54] **CHARACTERIZATION OF ADAPTIVE IMMUNE RESPONSE TO VACCINATION OR INFECTION USING IMMUNE REPERTOIRE SEQUENCING**
[54] **CARACTERISATION DE LA REPONSE IMMUNITAIRE ADAPTATIVE A LA VACCINATION OU A L'INFECTION A L'AIDE DU SEQUENCAGE DU REPERTOIRE IMMUNITAIRE**
[72] ROBINS, HARLAN S., US
[72] EMERSON, RYAN O., US
[72] DEWITT, WILLIAM SUMNER, III, US
[73] ADAPTIVE BIOTECHNOLOGIES CORPORATION, US
[73] FRED HUTCHINSON CANCER CENTER, US
[85] 2017-05-19
[86] 2015-11-24 (PCT/US2015/062494)
[87] (WO2016/086029)
[30] US (62/084,470) 2014-11-25

[11] **2,968,830**
[13] C
[51] **Int.Cl. G06N 10/40 (2022.01)**
[25] EN
[54] **QUANTUM PROCESSOR, AND METHOD OF QUANTUM PROCESSING**
[54] **PROCESSEUR QUANTIQUE, ET METHODE DE TRAITEMENT QUANTIQUE**
[72] BLAIS, ALEXANDRE, CA
[72] PURI, SHRUTI, CA
[72] GRIMSMO, ARNE L., AU
[72] KRAGLUND ANDERSEN, CHRISTIAN, CH
[73] SOCPRA SCIENCES ET GENIE S.E.C., CA
[86] (2968830)
[87] (2968830)
[22] 2017-05-29

[11] **2,969,604**
[13] C
[51] **Int.Cl. A61K 35/745 (2015.01) A23L 33/135 (2016.01) A61P 31/16 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **IMMUNOMODULATORY COMPOSITION COMPRISING BIFIDOBACTERIA**
[54] **COMPOSITION IMMUNOMODULATRICE COMPRENANT DES BIFIDOBACTERIES**
[72] LEHTINEN, MARKUS, FI
[72] LAHTINEN, SAMPO, FI
[72] TURNER, RONALD B, US
[73] DUPONT NUTRITION BIOSCIENCES APS, DK
[85] 2017-06-02
[86] 2016-01-27 (PCT/EP2016/051695)
[87] (WO2016/120320)
[30] US (62/108,260) 2015-01-27

[11] **2,971,359**
[13] C
[51] **Int.Cl. A61K 38/48 (2006.01) A61K 47/02 (2006.01) A61K 47/10 (2017.01) A61K 47/18 (2017.01) C12N 9/68 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION COMPRISING PLASMINOGEN AND USES THEREOF**
[54] **COMPOSITION PHARMACEUTIQUE COMPRENANT DU PLASMINOGENE ET SES UTILISATIONS**
[72] ROBITAILLE, MARTIN, CA
[72] BLACKMAN, DAVIDA, US
[72] PLUM, STACY, US
[72] GARZON-RODRIGUEZ, WILLIAM, US
[72] YU, BETTY, US
[73] PROMETIC BIOTHERAPEUTICS, INC., US
[85] 2017-06-15
[86] 2015-12-18 (PCT/CA2015/000606)
[87] (WO2016/095013)
[30] US (62/094,556) 2014-12-19

[11] **2,973,393**
[13] C
[51] **Int.Cl. G06V 40/16 (2022.01)**
[25] EN
[54] **A SYSTEM AND A METHOD FOR IMAGE RECOGNITION**
[54] **UN SYSTEME ET UNE METHODE DE RECONNAISSANCE D'IMAGE**
[72] LIANG, NINGQING, CN
[72] CHEN, MINGXIU, CN
[72] ZHANG, HONGXIN, CN
[73] YUTOU TECHNOLOGY (HANGZHOU) CO., LTD., CN
[85] 2017-07-10
[86] 2015-06-12 (PCT/CN2015/081403)
[87] (WO2016/112630)
[30] CN (201510014262.8) 2015-01-12

[11] **2,976,582**
[13] C
[51] **Int.Cl. G01M 15/00 (2006.01) B64F 5/60 (2017.01) G01N 21/954 (2006.01) G02B 23/24 (2006.01) H04B 7/26 (2006.01) H04N 5/262 (2006.01) H04N 7/18 (2006.01)**
[25] FR
[54] **METHOD AND DEVICE FOR REMOTELY INSPECTING THE STATE OF AN AIRCRAFT ENGINE**
[54] **PROCEDE ET DISPOSITIF DE CONTROLE DE L'ETAT D'UN MOTEUR D'AERONEF A DISTANCE**
[72] REMOND, FLORIE, FR
[72] GUERIN, ERWAN, FR
[72] GUYENNE, JADE, FR
[72] LHERMENIER, BERNARD, FR
[72] SQUEDIN, SYLVAIN, FR
[73] SAFRAN AIRCRAFT ENGINES, FR
[85] 2017-08-14
[86] 2016-02-22 (PCT/FR2016/050401)
[87] (WO2016/135402)
[30] FR (15 51523) 2015-02-23

[11] **2,978,458**
[13] C
[51] **Int.Cl. C07D 413/12 (2006.01) A61K 31/536 (2006.01) A61K 31/5365 (2006.01) C07D 265/02 (2006.01) C07D 401/12 (2006.01) C07D 405/12 (2006.01) C07D 413/14 (2006.01) C07D 495/04 (2006.01) C07D 498/04 (2006.01)**
[25] EN
[54] **GLUCOSYLCERAMIDE SYNTHASE INHIBITORS FOR THE TREATMENT OF DISEASES**
[54] **INHIBITEURS DE LA GLUCOSYLCERAMIDE SYNTHASE POUR LE TRAITEMENT DE MALADIES**
[72] WANG, BING, US
[73] BIOMARIN PHARMACEUTICAL INC., US
[85] 2017-08-31
[86] 2016-03-10 (PCT/US2016/021706)
[87] (WO2016/145153)
[30] US (62/131,703) 2015-03-11

[11] **2,980,793**
[13] C
[51] **Int.Cl. G01V 1/02 (2006.01)**
[25] EN
[54] **COHERENT SOUND SOURCE FOR MARINE SEISMIC SURVEYS**
[54] **SOURCE SONORE COHERENTE POUR RELEVES SISMIQUES MARINS**
[72] MCCONNELL, JAMES A., US
[72] BERKMAN, EVAN F., US
[72] MURRAY, BRUCE S., US
[72] ABRAHAM, BRUCE M., US
[72] ROY, DANIEL A., US
[73] APPLIED PHYSICAL SCIENCES CORP., US
[85] 2017-09-22
[86] 2016-04-14 (PCT/US2016/027518)
[87] (WO2016/176052)
[30] US (14/700,879) 2015-04-30

[11] **2,983,805**
[13] C
[51] **Int.Cl. G01N 27/00 (2006.01) G01N 27/622 (2021.01) G01N 27/623 (2021.01) G01N 27/64 (2006.01)**
[25] EN
[54] **DOPANTS FOR THE DETECTION OF NITRATES**
[54] **DOPANTS POUR LA DETECTION DE NITRATES**
[72] HENDRIKSE, JAN, CA
[72] ROMANOV, VLADIMIR, CA
[72] VERKERK, UDO, CA
[72] HOPKINSON, ALAN, CA
[73] SMITHS DETECTION MONTREAL INC., CA
[85] 2017-10-24
[86] 2016-04-28 (PCT/IB2016/052408)
[87] (WO2016/174605)
[30] GB (1507246.5) 2015-04-28

[11] **2,983,829**
[13] C
[51] **Int.Cl. A61K 49/10 (2006.01) A61K 49/08 (2006.01)**
[25] EN
[54] **METAL COMPLEXES WITH BISPHOSPHONATE OR PYROPHOSPHATE USEFUL AS IMAGING AGENTS**
[54] **COMPLEXES METALLIQUES AVEC DU BISPHOSPHONATE OU DU PYROPHOSPHATE UTILES EN TANT QU'AGENTS D'IMAGERIE**
[72] LASCOLA, CHRISTOPHER DAVID, US
[73] DUKE UNIVERSITY, US
[85] 2017-10-23
[86] 2016-04-22 (PCT/US2016/028946)
[87] (WO2016/172552)
[30] US (62/152,417) 2015-04-24

[11] **2,984,703**
[13] C
[51] **Int.Cl. C07D 401/12 (2006.01) C07D 237/20 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING 4-AMINO-PYRIDAZINES**
[54] **PROCEDE DE PREPARATION DE 4-AMINO-PYRIDAZINES**
[72] KLAUBER, ERIC GEORGE, DE
[72] RACK, MICHAEL, DE
[72] GOETZ, ROLAND, DE
[72] SORGEL, SEBASTIAN, DE
[73] BASF SE, DE
[85] 2017-11-01
[86] 2016-05-10 (PCT/EP2016/060461)
[87] (WO2016/180833)
[30] US (62/159,392) 2015-05-11
[30] EP (15169166.4) 2015-05-26

[11] **2,986,342**
[13] C
[51] **Int.Cl. C07K 19/00 (2006.01) A61K 39/295 (2006.01) A61P 31/04 (2006.01) A61P 31/14 (2006.01) A61P 37/04 (2006.01) C07K 1/14 (2006.01)**
[25] EN
[54] **HEPATITIS C VIRUS IMMUNOGENIC COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS IMMUNOGENES A BASE DU VIRUS DE L'HEPATITE C ET PROCEDES D'UTILISATION**
[72] HOUGHTON, MICHAEL, CA
[72] LAW, JOHN L., CA
[72] LOGAN, MICHAEL, CA
[72] HOCKMAN, DARREN, CA
[72] LANDI, ABDOLAMIR, CA
[73] THE GOVERNORS OF THE UNIVERSITY OF ALBERTA, CA
[85] 2017-11-17
[86] 2016-07-06 (PCT/IB2016/001051)
[87] (WO2017/006182)
[30] US (62/189,657) 2015-07-07

[11] **2,987,251**
[13] C
[51] **Int.Cl. A61B 5/391 (2021.01) A61B 5/287 (2021.01) A61B 5/392 (2021.01) A63B 23/20 (2006.01) A61N 1/36 (2006.01)**
[25] EN
[54] **METHOD TO ASSESS PELVIC FLOOR MUSCLES INJURY, AND PROBE AND APPARATUS TO IMPLEMENT THE METHOD**
[54] **PROCEDE D'EVALUATION DE LESION DE MUSCLES DU PLANCHER PELVIEN, ET SONDE ET APPAREIL POUR METTRE EN OEUVRE LE PROCEDE**
[72] BORYCKA KICIAK, KATARZYNA, PL
[72] PALKO, TADEUSZ, PL
[72] LUKASIK, WLODZIMIERZ, PL
[73] OASIS DIAGNOSTICS SPOLKA AKCYJNA, PL
[85] 2017-11-24
[86] 2016-05-27 (PCT/PL2016/050024)
[87] (WO2016/190763)
[30] PL (P.412485) 2015-05-27

[11] **2,987,274**
[13] C
[51] **Int.Cl. H04W 72/40 (2023.01)**
[25] EN
[54] **SCHEDULING ASSIGNMENT TRANSMISSIONS IN DEVICE-TO-DEVICE COMMUNICATIONS**
[54] **TRANSMISSIONS D'ATTRIBUTION DE PROGRAMMATION DANS DES COMMUNICATIONS DE DISPOSITIF A DISPOSITIF**
[72] PATIL, SHAILESH, US
[72] TAVILDAR, SAURABHA RANGRAO, US
[72] BAGHEL, SUDHIR KUMAR, US
[72] GULATI, KAPIL, US
[72] JIANG, LIBIN, US
[73] QUALCOMM INCORPORATED, US
[85] 2017-11-24
[86] 2016-06-14 (PCT/US2016/037379)
[87] (WO2017/003672)
[30] US (62/188,302) 2015-07-02
[30] US (15/181,204) 2016-06-13

[11] **2,987,340**
[13] C
[51] **Int.Cl. A61K 31/495 (2006.01) A61K 31/437 (2006.01) A61K 31/506 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **PAC-1 COMBINATION THERAPY**
[54] **POLYTHERAPIE A BASE DE PAC-1**
[72] HERGENROTHER, PAUL J., US
[72] PEH, JESSIE, US
[73] THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, US
[85] 2017-11-24
[86] 2016-06-06 (PCT/US2016/036063)
[87] (WO2016/197129)
[30] US (62/171,882) 2015-06-05
[30] US (62/345,629) 2016-06-03

[11] **2,987,955**
[13] C
[51] **Int.Cl. A61B 17/00 (2006.01) A61B 17/06 (2006.01) A61B 17/064 (2006.01) A61B 17/29 (2006.01) A61B 18/00 (2006.01) A61L 31/08 (2006.01)**
[25] EN
[54] **MATTER MANIPULATOR WITH CONDUCTIVE COATING**
[54] **DISPOSITIF DE MANIPULATION DE MATIERE A REVETEMENT CONDUCTEUR**
[72] MILLER, SCOTT, US
[73] GI SCIENTIFIC, LLC, US
[85] 2017-11-30
[86] 2016-06-02 (PCT/US2016/035593)
[87] (WO2016/196845)
[30] US (62/170,010) 2015-06-02

[11] **2,987,964**
[13] C
[51] **Int.Cl. B60C 29/00 (2006.01) B60C 29/02 (2006.01)**
[25] EN
[54] **VALVE STEM ASSEMBLIES**
[54] **ENSEMBLES TIGES DE VANNE**
[72] JOHNSON, TODD, US
[73] JOHNSON, TODD, US
[85] 2017-11-30
[86] 2016-06-03 (PCT/US2016/035643)
[87] (WO2016/196880)
[30] US (62/171,740) 2015-06-05

[11] **2,989,599**
[13] C
[51] **Int.Cl. C12M 1/38 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6844 (2018.01) C12M 1/26 (2006.01) C12M 1/34 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **A METHOD OF DETECTING GENETIC MATERIAL IN A BIOLOGICAL SAMPLE AND A DEVICE FOR ITS IMPLEMENTATION**
[54] **PROCEDE DE DETECTION DE MATERIEL GENETIQUE DANS UN ECHANTILLON BIOLOGIQUE ET DISPOSITIF POUR SA MISE EN OEUVRE**
[72] TOKARSKI, MIRON, PL
[72] ROGUSZCZAK, HENYK WALDEMAR, PL
[72] DOBOSZ, TADEUSZ, PL
[72] GOLONKA, LESZEK, PL
[72] DABROWSKI, ARKADIUSZ, PL
[72] MALODOBRA-MAZUR, MALGORZATA, PL
[72] ANDRZEJEWSKI, DAMIAN, PL
[73] GENOMTEC S.A., PL
[86] (2989599)
[87] (2989599)
[22] 2017-12-20
[30] PL (P.419 907) 2016-12-21

[11] **2,992,519**
[13] C
[51] **Int.Cl. G06F 16/71 (2019.01) H04N 21/462 (2011.01) G06F 16/78 (2019.01) G10L 15/00 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PARTITIONING SEARCH INDEXES FOR IMPROVED EFFICIENCY IN IDENTIFYING MEDIA SEGMENTS**
[54] **SYSTEMES ET PROCEDES PERMETTANT DE CLOISONNER DES INDICES DE RECHERCHE PERMETTANT D'AMELIORER LE RENDEMENT D'IDENTIFICATION DE SEGMENTS DE MEDIA**
[72] NEUMEIER, ZEEV, US
[72] COLLETTE, MICHAEL, US
[73] INSCAPE DATA, INC., US
[85] 2018-01-12
[86] 2016-07-15 (PCT/US2016/042557)
[87] (WO2017/011768)
[30] US (62/193,351) 2015-07-16

[11] **2,995,605**
[13] C
[51] **Int.Cl. A61K 31/4745 (2006.01) A61K 9/00 (2006.01) A61K 9/10 (2006.01) A61K 9/107 (2006.01) A61K 31/155 (2006.01) A61K 31/64 (2006.01) A61K 36/29 (2006.01) A61K 36/71 (2006.01) C07C 279/26 (2006.01) C07C 311/59 (2006.01) C07D 455/03 (2006.01)**
[25] EN
[54] **TRANSDERMAL FORMULATIONS FOR DELIVERY OF BERBERINE COMPOUNDS, AND THEIR USE IN THE TREATMENT OF BERBERINE-RESPONSIVE DISEASES AND CONDITIONS**
[54] **FORMULATIONS TRANSDERMIQUES POUR L'ADMINISTRATION DE COMPOSES DE BERBERINE ET LEUR UTILISATION DANS LE TRAITEMENT DE MALADIES ET DE PATHOLOGIES SENSIBLES A LA BERBERINE**
[72] GABRIELE, JOSEPH, CA
[72] BARANOWSKI, DAVID, CA
[72] BUCHANAN, BETH, CA
[72] ZUCCOLO, JONATHAN, CA
[72] TERIS, MIKAELA, CA
[73] GABRIELE, JOSEPH, CA
[85] 2018-02-14
[86] 2016-08-17 (PCT/CA2016/050965)
[87] (WO2017/027971)
[30] US (62/205,895) 2015-08-17
[30] US (62/301,318) 2016-02-29

[11] **2,995,723**
[13] C
[51] **Int.Cl. A61J 3/06 (2006.01)**
[25] EN
[54] **INTELLIGENT CONTINUOUS MANUFACTURING METHOD VIA LIQUID COOLING OF DRIPPING PILLS**
[54] **PROCEDE INTELLIGENT DE FABRICATION EN CONTINU PAR REFROIDISSEMENT PAR LIQUIDE DE PILULES FORMEES PAR EGOUTTAGE**
[72] YAN, KAIJING, CN
[72] SUN, XIAOBING, CN
[72] RONG, CHANGSHENG, CN
[72] CAI, XUEFEI, CN
[72] WANG, LIANG, CN
[73] TASLY PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2018-02-15
[86] 2016-09-14 (PCT/CN2016/099018)
[87] (WO2017/045609)
[30] CN (2015105985911) 2015-09-18

[11] **2,995,730**
[13] C
[51] **Int.Cl. G01N 21/03 (2006.01) G01D 5/00 (2006.01) G01N 21/31 (2006.01)**
[25] EN
[54] **PATH LENGTH CALIBRATION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ETALONNAGE DE LONGUEUR DE TRAJET**
[72] ASHMEAD, DAMIAN W., US
[72] HOWARD, JAMES V., US
[72] KIM, KEVIN K., US
[72] BRAASCH, ANDREW MARTIN, US
[73] THERMO ELECTRON SCIENTIFIC INSTRUMENTS LLC, US
[85] 2018-02-14
[86] 2016-08-25 (PCT/US2016/048635)
[87] (WO2017/048475)
[30] US (62/220,536) 2015-09-18
[30] US (62/306,793) 2016-03-11

[11] **2,996,852**
[13] C
[51] **Int.Cl. B64D 41/00 (2006.01) H02H 9/02 (2006.01) H02J 4/00 (2006.01) H02K 7/14 (2006.01) H02K 7/18 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS FOR DISTRIBUTING ELECTRIC POWER ON AN AIRCRAFT DURING A LIMITED POWER AVAILABILITY CONDITION**
[54] **APPAREIL ET PROCEDES DE DISTRIBUTION D'ENERGIE ELECTRIQUE DANS UN AERONEF LORS D'UN ETAT DE DISPONIBILITE D'ENERGIE LIMITEE**
[72] NFONGUEM, GUSTAVE, CA
[72] ILIESCU, VLAD, CA
[73] BOMBARDIER INC., CA
[85] 2018-02-27
[86] 2016-09-08 (PCT/IB2016/055362)
[87] (WO2017/042712)
[30] US (62/217,328) 2015-09-11

[11] **2,997,240**
[13] C
[51] **Int.Cl. A61K 39/395 (2006.01) A61K 38/00 (2006.01) A61K 45/00 (2006.01) A61K 45/06 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01) A61P 37/04 (2006.01) A61P 43/00 (2006.01)**
[25] EN
[54] **IMMUNITY ENHANCING AGENT FOR CANCER BY ALLERGIN-1 ANTAGONIST**
[54] **AGENT REHAUSSANT L'IMMUNITE VISANT LE CANCER ET COMPORTANT UN ANTAGONISTE D'ALLERGINE-1**
[72] SHIBAYAMA, SHIRO, JP
[72] ARIMA, HIROSHI, JP
[72] SIMBO, TAKUYA, JP
[73] ONO PHARMACEUTICAL CO., LTD., JP
[85] 2018-03-01
[86] 2016-09-02 (PCT/JP2016/075887)
[87] (WO2017/038997)
[30] JP (2015-173659) 2015-09-03
[30] JP (2016-138374) 2016-07-13

[11] **2,998,540**
[13] C
[51] **Int.Cl. A61K 39/015 (2006.01) A61K 9/50 (2006.01) A61K 9/70 (2006.01) A61K 39/39 (2006.01) A61P 33/06 (2006.01) A61P 37/04 (2006.01)**
[25] EN
[54] **ANTI-MALARIA COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS ANTIMALARIQUES ET PROCEDES**
[72] BOYD, JAMES GORHAM, US
[72] POWELL, THOMAS J., US
[73] ARTIFICIAL CELL TECHNOLOGIES, INC., US
[85] 2018-03-12
[86] 2016-09-13 (PCT/US2016/051469)
[87] (WO2017/048689)
[30] US (62/219,260) 2015-09-16

[11] **3,000,013**
[13] C
[51] **Int.Cl. A61B 18/14 (2006.01) A61B 18/18 (2006.01)**
[25] EN
[54] **SCREEN SPHERE TISSUE ABLATION DEVICES AND METHODS**
[54] **DISPOSITIFS D'ABLATION DE TISSU A TAMIS SPHERIQUE ET PROCEDES ASSOCIES**
[72] RIOUX, ROBERT F., US
[72] BEAN, RYAN M., US
[73] INNOBLATIVE DESIGNS, INC., US
[85] 2018-03-26
[86] 2016-10-28 (PCT/US2016/059345)
[87] (WO2017/075366)
[30] US (62/248,157) 2015-10-29
[30] US (62/275,984) 2016-01-07

[11] **3,000,408**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61F 2/82 (2013.01) A61F 2/92 (2013.01) A61N 1/05 (2006.01) A61N 1/375 (2006.01)**
[25] EN
[54] **TRANSVASCULAR NERVE STIMULATION APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES DE NEUROSTIMULATION TRANSVASCULAIRE**
[72] HOFFER, JOAQUIN ANDRES, CA
[73] LUNGPACER MEDICAL INC., CA
[86] (3000408)
[87] (3000408)
[22] 2008-01-29
[62] 2,877,177
[30] US (60/887,031) 2007-01-29

[11] **3,000,462**
[13] C
[51] **Int.Cl. A61K 35/761 (2015.01) C07K 14/075 (2006.01) C12N 7/01 (2006.01) C12N 15/33 (2006.01)**
[25] EN
[54] **SYNTHETIC ADENOVIRUSES WITH TROPISM TO DAMAGED TISSUE FOR USE IN PROMOTING WOUND REPAIR AND TISSUE REGENERATION**
[54] **ADENOVIRUS SYNTHETIQUE AVEC TROPISME POUR UN TISSU ENDOMMAGE POUR UTILISATION DANS LA STIMULATION DE LA REPARATION DE PLAIE ET LA REGENERATION TISSULAIRE**
[72] O'SHEA, CLODAGH, US
[72] POWERS, COLIN, US
[72] ZHANG, LEI, US
[73] SALK INSTITUTE FOR BIOLOGICAL STUDIES, US
[85] 2018-03-28
[86] 2016-10-05 (PCT/US2016/055579)
[87] (WO2017/062511)
[30] US (62/237,410) 2015-10-05

[11] **3,000,661**
[13] C
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4035 (2006.01) A61K 31/43 (2006.01) A61P 29/00 (2006.01) A61P 35/00 (2006.01) A61P 37/02 (2006.01) C07D 209/44 (2006.01) C07D 209/46 (2006.01) C07D 209/48 (2006.01) C07D 209/52 (2006.01) C07D 401/04 (2006.01) C07D 417/04 (2006.01) C07D 499/80 (2006.01)**
[25] EN
[54] **THALIDOMIDE ANALOGS AND METHODS OF USE**
[54] **ANALOGUES DE LA THALIDOMIDE ET LEURS PROCEDES D'UTILISATION**
[72] GREIG, NIGEL H., US
[72] LUO, WEIMING, US
[72] TWEEDIE, DAVID, US
[72] VARGESSON, NEIL, GB
[72] BEEDIE, SHAUNNA, GB
[72] FIGG, WILLIAM DOUGLAS, US
[73] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[73] UNIVERSITY COURT OF THE UNIVERSITY OF ABERDEEN, GB
[85] 2018-03-29
[86] 2016-09-29 (PCT/US2016/054430)
[87] (WO2017/059062)
[30] US (62/235,105) 2015-09-30

[11] **3,000,921**
[13] C
[51] **Int.Cl. E04F 13/08 (2006.01) E04F 13/00 (2006.01)**
[25] EN
[54] **A BUILDING ARTICLE AND METHODS FOR PREPARING SAME**
[54] **ARTICLE DE CONSTRUCTION ET SES METHODES DE PREPARATION**
[72] JOSHI, AMOL, US
[72] MCQUERREY, BRIAN, US
[72] LI, HUI, US
[73] JAMES HARDIE TECHNOLOGY LIMITED, IE
[85] 2018-04-03
[86] 2016-12-22 (PCT/EP2016/082499)
[87] (WO2017/109142)
[30] US (62/387,599) 2015-12-23

[11] **3,001,648**
[13] C
[51] **Int.Cl. G02C 7/02 (2006.01) A61B 3/113 (2006.01) G02C 7/06 (2006.01) G02C 13/00 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING AN OPTICAL SYSTEM OF A PROGRESSIVE LENS**
[54] **PROCEDE DE DETERMINATION D'UN SYSTEME OPTIQUE D'UN VERRE PROGRESSIF**
[72] ROUSSEAU, BENJAMIN, FR
[72] ESCALIER, GUILHEM, FR
[72] POULAIN, ISABELLE, FR
[72] WIERZBICKI, JULIETTE, FR
[72] CALIXTE, LAURENT, FR
[72] LAKHCHAF, NACER, FR
[72] MARIE, SARAH, FR
[72] BONNIN, THIERRY, FR
[72] JOLIVET, VALERIE, FR
[73] ESSILOR INTERNATIONAL, FR
[85] 2018-04-11
[86] 2016-10-11 (PCT/EP2016/074340)
[87] (WO2017/064060)
[30] EP (15306655.0) 2015-10-15
[30] EP (15306644.4) 2015-10-15
[30] EP (15306646.9) 2015-10-15
[30] EP (15306647.7) 2015-10-15
[30] EP (15306891.1) 2015-11-27

[11] **3,002,387**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/14 (2006.01) A61K 9/48 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **ISOTRETINOIN FORMULATIONS AND USES THEREOF**
[54] **FORMULATIONS D'ISOTRETINOINE ET UTILISATIONS CONNEXES**
[72] ROME, ZACHARY, US
[72] EVANS, CHARLES RODNEY GREENAWAY, GB
[72] BROWN, MARC BARRY, GB
[72] CASERTA, FRANCESCO, GB
[73] LEO PHARMA A/S, DK
[85] 2018-04-17
[86] 2016-10-26 (PCT/US2016/058746)
[87] (WO2017/074982)
[30] US (62/248,760) 2015-10-30
[30] US (62/301,759) 2016-03-01

[11] **3,004,517**
[13] C
[51] **Int.Cl. G06T 7/13 (2017.01) G06T 7/162 (2017.01) G06T 7/181 (2017.01)**
[25] EN
[54] **FAST AND AUTOMATED SEGMENTATION OF LAYERED IMAGE WITH HEURISTIC GRAPH SEARCH**
[54] **SEGMENTATION RAPIDE ET AUTOMATISEE D'UNE IMAGE EN COUCHES A L'AIDE D'UNE RECHERCHE DE GRAPHE HEURISTIQUE**
[72] REN, HUGANG, US
[72] YU, LINGFENG, US
[73] ALCON INC., US
[85] 2018-05-07
[86] 2016-12-02 (PCT/IB2016/057324)
[87] (WO2017/098388)
[30] US (14/966,694) 2015-12-11

[11] **3,004,904**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **MULTI-GANG FIBER OPTIC CASSETTE SYSTEM**
[54] **SYSTEME DE CASSETTE DE FIBRE OPTIQUE A ASSEMBLAGE MULTIPLE**
[72] SAUTER, TOM, US
[72] BERNSTEIN, GARY, US
[73] LEVITON MANUFACTURING CO., INC., US
[85] 2018-05-09
[86] 2016-11-08 (PCT/US2016/060907)
[87] (WO2017/083256)
[30] US (14/937,817) 2015-11-10

[11] **3,005,078**
[13] C
[51] **Int.Cl. A61B 8/08 (2006.01) A61B 5/113 (2006.01) A61B 8/00 (2006.01)**
[25] EN
[54] **ULTRASONIC METHOD AND APPARATUS FOR RESPIRATION MONITORING**
[54] **PROCEDE ULTRASONORE ET APPAREIL DE SURVEILLANCE DE RESPIRATION**
[72] SOUZY, NICOLAS, NO
[72] ERIKSEN, MORTEN, NO
[72] BERARD-ANDERSEN, NICOLAY, NO
[73] RESPINOR AS, NO
[85] 2018-05-11
[86] 2016-11-11 (PCT/EP2016/077426)
[87] (WO2017/081247)
[30] GB (1519985.4) 2015-11-12
[30] GB (1614633.4) 2016-08-30

[11] **3,005,390**
[13] C
[51] **Int.Cl. G01C 11/02 (2006.01) G01S 17/90 (2020.01) G01S 13/90 (2006.01)**
[25] EN
[54] **METHOD FOR ACQUIRING IMAGES OF A SCENE, FROM A SENSOR ON BOARD A MOVING CARRIER, WITH SERVOCONTROL OF ITS LINE OF SIGHT**
[54] **PROCEDE D'ACQUISITION D'IMAGES D'UNE SCENE, A PARTIR D'UN CAPTEUR A BORD D'UN PORTEUR EN DEPLACEMENT, AVEC ASSERVISSEMENT DE SA LIGNE DE VISEE**
[72] HORAK, RAPHAEL, FR
[73] THALES, FR
[85] 2018-05-15
[86] 2016-11-18 (PCT/EP2016/078146)
[87] (WO2017/085259)
[30] FR (1502431) 2015-11-20

[11] **3,005,577**
[13] C
[51] **Int.Cl. E04C 2/04 (2006.01) E04B 1/04 (2006.01) E04B 1/92 (2006.01)**
[25] FR
[54] **ARCHITECTURAL ASSEMBLY FORMING A SHIELD AGAINST ELECTROMAGNETIC RADIATION**
[54] **ENSEMBLE ARCHITECTURE FORMANT UN BLINDAGE CONTRE LES RAYONNEMENTS ELECTROMAGNETIQUES**
[72] CARON-FELLENS, JEAN-PAUL, FR
[72] MARDIGUIAN, MICHEL, FR
[72] PITOUX, THIERRY, FR
[72] SOULIAC, GUILLAUME, FR
[73] SPIE BATIGNOLLES GENIE CIVIL, FR
[73] LERAU, FR
[85] 2018-05-16
[86] 2017-02-03 (PCT/FR2017/050244)
[87] (WO2017/140966)
[30] FR (1651289) 2016-02-17

[11] **3,006,096**
[13] C
[51] **Int.Cl. G01D 5/00 (2006.01) G01B 17/04 (2006.01) G01D 5/48 (2006.01) G01K 11/22 (2006.01) G01L 3/00 (2006.01) G10K 11/36 (2006.01)**
[25] EN
[54] **SENSOR SYSTEM AND METHOD**
[54] **SYSTEME DETECTEUR ET METHODE**
[72] IANNOTTI, JOSEPH, US
[72] KAPUSTA, CHRISTOPHER JAMES, US
[72] ESLER, DAVID RICHARD, US
[73] GENERAL ELECTRIC COMPANY, US
[86] (3006096)
[87] (3006096)
[22] 2018-05-24
[30] US (15/616,105) 2017-06-07

[11] **3,006,140**
[13] C
[51] **Int.Cl. G01P 15/093 (2006.01) B81B 5/00 (2006.01) G01P 15/08 (2006.01)**
[25] EN
[54] **FIBRE OPTIC ACCELERATION SENSOR**
[54] **CAPTEUR D'ACCELERATION A FIBRE OPTIQUE**
[72] AEBI, LAURENT, CH
[72] TORMEN, MAURIZIO, CH
[72] TIMOTIJEVIC, BRANISLAV, CH
[72] PETREMAND, YVES, CH
[72] BAYAT, DARA, CH
[72] LUTZELSCHWAB, MARKUS, CH
[73] MC-MONITORING S.A., CH
[85] 2018-05-23
[86] 2016-11-18 (PCT/EP2016/078128)
[87] (WO2017/089235)
[30] CH (01735/15) 2015-11-27

[11] **3,006,637**
[13] C
[51] **Int.Cl. B67D 1/00 (2006.01)**
[25] EN
[54] **A BEVERAGE FONT FOR A BEVERAGE DISPENSING SYSTEM, A BEVERAGE DISPENSING SYSTEM COMPRISING A BEVERAGE FONT AND A METHOD OF DISPENSING A MIXED ALCOHOLIC BEVERAGE PRODUCT BY PROVIDING A BEVERAGE DISPENSING SYSTEM**
[54] **RESERVOIR DE BOISSON POUR SYSTEME DE DISTRIBUTION DE BOISSON, SYSTEME DE DISTRIBUTION DE BOISSON COMPRENANT UN RESERVOIR DE BOISSON, ET PROCEDE DE DISTRIBUTION DE PRODUIT DE BOISS ON ALCOOLISE MELANGE EN FOURNISSANT UN SYSTEME DE DISTRIBUTION DE BOISSON**
[72] RASMUSSEN, JAN NORAGER, DK
[72] BESTLE, NIKOLAJ HEIBERG, DK
[73] CARLSBERG BREWERIES A/S, DK
[85] 2018-05-28
[86] 2016-12-07 (PCT/EP2016/080038)
[87] (WO2017/097820)
[30] EP (15198363.2) 2015-12-08

[11] **3,008,024**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01)**
[25] EN
[54] **SYSTEMS FOR TREATMENT OF A NEUROLOGICAL DISORDER USING ELECTRICAL NERVE CONDUCTION BLOCK**
[54] **SYSTEMES DE TRAITEMENT D'UN TROUBLE NEUROLOGIQUE AU MOYEN D'UN BLOC DE CONDUCTION NERVEUSE ELECTRIQUE**
[72] BHADRA, NILOY, US
[72] BHADRA, NARENDRA, US
[72] KILGORE, KEVIN L., US
[72] LEMPKA, SCOTT, US
[72] WAINRIGHT, JESSE, US
[72] VRABEC, TINA, US
[72] FRANKE, MANFRED, US
[73] CASE WESTERN RESERVE UNIVERSITY, US
[85] 2018-06-08
[86] 2016-12-15 (PCT/US2016/066960)
[87] (WO2017/106519)
[30] US (14/969,826) 2015-12-15

[11] **3,008,787**
[13] C
[51] **Int.Cl. C11D 17/06 (2006.01) C11D 3/00 (2006.01) C11D 3/37 (2006.01)**
[25] EN
[54] **LAUNDRY SHEET COMPRISING FUNCTIONAL GRANULES**
[54] **LINGETTE DE LESSIVE COMPRENANT DES GRANULES FONCTIONNELS**
[72] CHO, MIN-SEOK, KR
[72] JO, MUN-SEONG, KR
[72] CHA, KYUNG-ON, KR
[72] KIM, JAE-HYUN, KR
[73] LG HOUSEHOLD & HEALTH CARE LTD., KR
[85] 2018-06-15
[86] 2016-12-16 (PCT/KR2016/014803)
[87] (WO2017/105131)
[30] KR (10-2015-0180978) 2015-12-17
[30] KR (10-2016-0067653) 2016-05-31

[11] **3,009,067**
[13] C
[51] **Int.Cl. C10L 1/04 (2006.01)**
[25] EN
[54] **METHODS OF PROVIDING HIGHER QUALITY LIQUID KEROSENE BASED-PROPULSION FUELS**
[54] **PROCEDES DE FOURNITURE DE CARBURANTS DE PROPULSION LIQUIDES A BASE DE KEROSENE DE QUALITE SUPERIEURE**
[72] GINESTRA, CYNTHIA NATALIE, US
[72] DALLY, BRICE NATHANIEL, US
[72] BAULDREAY, JOANNA MARGARET, GB
[72] HEMIGHAUS, GREGORY, US
[73] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2018-06-18
[86] 2016-12-21 (PCT/US2016/067904)
[87] (WO2017/112718)
[30] US (62/270,192) 2015-12-21

[11] **3,009,444**
[13] C
[51] **Int.Cl. C03C 17/00 (2006.01) C03C 17/34 (2006.01)**
[25] EN
[54] **HIGH STRENGTH GLASS CONTAINERS**
[54] **RECIPIENTS EN VERRE TRES RESISTANTS**
[72] SANDERSON, KEVIN DAVID, GB
[72] RAISBECK, DEBORAH, GB
[73] PILKINGTON GROUP LIMITED, GB
[85] 2018-06-21
[86] 2016-12-29 (PCT/GB2016/054085)
[87] (WO2017/115086)
[30] GB (1523156.6) 2015-12-31

[11] **3,010,110**
[13] C
[51] **Int.Cl. H04W 28/02 (2009.01) H04B 13/02 (2006.01) H04L 1/00 (2006.01)**
[25] EN
[54] **METHOD FOR MANAGING IN AN ADAPTIVE AND JOINT WAY THE ROUTING POLICY AND THE RETRANSMISSION POLICY OF A NODE IN AN UNDERWATER NETWORK, AND MEANS FOR ITS IMPLEMENTATION**
[54] **PROCEDE PERMETTANT DE GERER DE MANIERE ADAPTATIVE ET CONJOINTE LA POLITIQUE DE ROUTAGE ET LA POLITIQUE DE REEMISSION D'UN NOEUD DANS UN RESEAU SOUS-MARIN ET MOYENS PERMETTANT SA MI SE EN OEUVRE**
[72] PETRIOLI, CHIARA, IT
[72] LO PRESTI, FRANCESCO, IT
[72] DI VALERIO, VALERIO, IT
[72] SPACCINI, DANIELE, IT
[72] PICARI, LUIGI, IT
[73] WSENSE S.R.L., IT
[85] 2018-06-26
[86] 2016-10-14 (PCT/IB2016/056165)
[87] (WO2017/064661)
[30] IT (102015000062628) 2015-10-16

[11] **3,010,249**
[13] C
[51] **Int.Cl. H04N 21/438 (2011.01) H04H 60/32 (2009.01) H04N 21/435 (2011.01)**
[25] EN
[54] **DATA PROCESSING APPARATUS AND DATA PROCESSING METHOD**
[54] **DISPOSITIF DE TRAITEMENT DE DONNEES ET PROCEDE DE TRAITEMENT DE DONNEES**
[72] TAKAHASHI, KAZUYUKI, JP
[72] MICHAEL, LACHLAN BRUCE, JP
[73] SONY CORPORATION, JP
[85] 2018-06-29
[86] 2016-12-28 (PCT/JP2016/089039)
[87] (WO2017/122544)
[30] JP (2016-004533) 2016-01-13

[11] **3,011,078**
[13] C
[51] **Int.Cl. B67D 1/08 (2006.01) A23L 5/00 (2016.01) A23L 2/00 (2006.01) A47J 31/00 (2006.01) A47J 31/44 (2006.01) B65D 81/00 (2006.01) B65D 85/816 (2006.01)**
[25] EN
[54] **CARTRIDGE HOUSING FOR A BEVERAGE OR FOOD CARTRIDGE**
[54] **DISPOSITIF DE RECEPTION POUR UNE CARTOUCHE DE BOISSON OU D'ALIMENT**
[72] KRUGER, MARC, DE
[72] EMPL, GUNTER, DE
[72] FISCHER, DANIEL, CH
[73] FREEZIO AG, CH
[85] 2018-07-10
[86] 2017-01-12 (PCT/EP2017/050562)
[87] (WO2017/121797)
[30] DE (10 2016 200 254.6) 2016-01-12
[30] DE (10 2016 212 012.3) 2016-07-01
[30] DE (10 2016 212 013.1) 2016-07-01
[30] DE (10 2016 218 507.1) 2016-09-27
[30] DE (10 2016 218 509.8) 2016-09-27
[30] DE (10 2016 218 884.4) 2016-09-29

[11] **3,011,275**
[13] C
[51] **Int.Cl. G06Q 10/087 (2023.01) B65G 1/137 (2006.01)**
[25] EN
[54] **ZONELESS PICK SYSTEM WITH OPERATOR DATA TRACKING**
[54] **SYSTEME DE RAMASSAGE SANS ZONE A SUIVI DE DONNEES OPERATEUR**
[72] POST, TIM, US
[72] VAN HEKKEN, JON, US
[73] DEMATIC CORP., US
[86] (3011275)
[87] (3011275)
[22] 2018-07-13
[30] US (62/531,947) 2017-07-13

[11] **3,011,383**
[13] C
[51] **Int.Cl. H04W 48/12 (2009.01)**
[25] EN
[54] **MULTI-PRB OPERATION FOR NARROWBAND SYSTEMS**
[54] **FONCTION A PRB MULTIPLES POUR SYSTEMES A BANDE ETROITE**
[72] RICO ALVARINO, ALBERTO, US
[72] WANG, XIAOFENG, US
[72] XU, HAO, US
[72] CHEN, WANSHI, US
[72] GAAL, PETER, US
[72] MONTOJO, JUAN, US
[72] FAKOORIAN, SEYED ALI AKBAR, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-07-12
[86] 2017-02-10 (PCT/US2017/017320)
[87] (WO2017/139540)
[30] US (62/294,150) 2016-02-11
[30] US (15/428,242) 2017-02-09

[11] **3,011,661**
[13] C
[51] **Int.Cl. G01N 27/22 (2006.01) A61B 5/145 (2006.01) G01N 27/02 (2006.01) G01N 27/06 (2006.01)**
[25] EN
[54] **DIELECTRIC SENSING FOR SAMPLE CHARACTERIZATION**
[54] **DETECTION DIELECTRIQUE POUR LA CARACTERISATION D'ECHANTILLONS**
[72] SUSTER, MICHAEL, US
[72] MOHSENI, PEDRAM, US
[72] MAJI, DEBNATH, US
[72] STAVROU, EVI, US
[72] GURKAN, UMUT, US
[73] CASE WESTERN RESERVE UNIVERSITY, US
[85] 2018-07-16
[86] 2017-01-17 (PCT/US2017/013797)
[87] (WO2017/124104)
[30] US (62/279,467) 2016-01-15

[11] **3,011,678**
[13] C
[51] **Int.Cl. F16H 59/18 (2006.01) F16H 61/02 (2006.01) F16H 63/46 (2006.01)**
[25] EN
[54] **CONTROL DEVICE FOR VEHICLE AND CONTROL METHOD OF THE SAME**
[54] **DISPOSITIF ET PROCEDE DE COMMANDE POUR VEHICULE**
[72] OOTA, YUSUKE, JP
[72] NISHIHIRO, YOSHIMASA, JP
[73] NISSAN MOTOR CO., LTD., JP
[85] 2018-07-17
[86] 2017-01-16 (PCT/JP2017/001255)
[87] (WO2017/126475)
[30] JP (2016-007847) 2016-01-19

[11] **3,012,033**
[13] C
[51] **Int.Cl. H04W 16/28 (2009.01)**
[25] EN
[54] **USER TERMINAL, RADIO BASE STATION, AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL UTILISATEUR, STATION DE BASE SANS FIL, ET PROCEDE DE COMMUNICATION SANS FIL**
[72] TAKEDA, KAZUKI, JP
[72] HARADA, HIROKI, JP
[72] NAGATA, SATOSHI, JP
[73] NTT DOCOMO, INC., JP
[85] 2018-07-19
[86] 2017-01-25 (PCT/JP2017/002425)
[87] (WO2017/130992)
[30] JP (2016-013686) 2016-01-27

[11] **3,013,140**
[13] C
[51] **Int.Cl. H01F 27/32 (2006.01) H01F 27/22 (2006.01)**
[25] EN
[54] **ENERGY EFFICIENT BUSHING FOR A TRANSFORMER**
[54] **BAGUE A FAIBLE CONSOMMATION D'ENERGIE POUR UN TRANSFORMATEUR**
[72] DHLAMINI, SIZWE MAGIYA, CA
[73] POWER HV INC., CA
[86] (3013140)
[87] (3013140)
[22] 2018-08-02

[11] **3,013,461**
[13] C
[51] **Int.Cl. C08J 3/09 (2006.01) C09J 1/00 (2006.01) C09J 127/06 (2006.01)**
[25] EN
[54] **SOLVENT CEMENT FORMULATIONS**
[54] **FORMULATIONS D'ADHESIFS A SOLVANTS ORGANIQUES**
[72] PARHAR, AMRIT, US
[72] PEREZ, WILLIE, US
[73] OATEY CO., US
[85] 2018-08-01
[86] 2017-02-03 (PCT/US2017/016363)
[87] (WO2017/136634)
[30] US (62/291,751) 2016-02-05

[11] **3,014,110**
[13] C
[51] **Int.Cl. G01S 19/23 (2010.01) G01S 19/14 (2010.01) G01M 17/007 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD TO PROVIDE AN ASIL QUALIFIER FOR GNSS POSITION AND RELATED VALUES**
[54] **SYSTEME ET METHODE SERVANT A FOURNIR UN QUALIFIANT ASIL DE POSITION GNSS ET VALEURS ASSOCIEES**
[72] MOLNAR, ZOLTAN, CA
[72] DE GROOT, LANCE, CA
[73] NOVATEL INC., CA
[86] (3014110)
[87] (3014110)
[22] 2018-08-14
[30] US (15/680,450) 2017-08-18

[11] **3,015,354**
[13] C
[51] **Int.Cl. C08L 91/00 (2006.01) C04B 24/08 (2006.01) C04B 24/24 (2006.01) C04B 26/26 (2006.01) C08K 5/103 (2006.01) C08L 95/00 (2006.01)**
[25] EN
[54] **POLYMERIZED OILS & METHODS OF MANUFACTURING THE SAME**
[54] **HUILES POLYMERISEES ET LEUR PROCEDES DE FABRICATION**
[72] KURTH, TODD, US
[72] STEVERMER, CHRISTOPHER PATRICK, US
[72] TABATABAEE, HASSAN ALI, US
[73] CARGILL, INCORPORATED, US
[85] 2018-08-20
[86] 2017-02-24 (PCT/US2017/019445)
[87] (WO2017/147485)
[30] US (62/300,497) 2016-02-26

[11] **3,015,569**
[13] C
[51] **Int.Cl. G06Q 20/38 (2012.01) G06Q 20/06 (2012.01) H04L 9/30 (2006.01) H04L 9/32 (2006.01) G06F 16/27 (2019.01)**
[25] EN
[54] **REGISTRY AND AUTOMATED MANAGEMENT METHOD FOR BLOCKCHAIN-ENFORCED SMART CONTRACTS**
[54] **REGISTRE ET PROCEDE DE GESTION AUTOMATISEE POUR CONTRATS INTELLIGENTS APPLIQUES PAR CHAINE DE BLOCS**
[72] WRIGHT, CRAIG STEVEN, GB
[72] SAVANAH, STEPHANE, GB
[73] NCHAIN HOLDINGS LIMITED, AG
[85] 2018-08-20
[86] 2017-02-16 (PCT/IB2017/050865)
[87] (WO2017/145019)
[30] GB (1603123.9) 2016-02-23
[30] GB (1603125.4) 2016-02-23
[30] GB (1603117.1) 2016-02-23
[30] GB (1603114.8) 2016-02-23
[30] GB (1605571.7) 2016-04-01
[30] GB (1619301.3) 2016-11-15

[11] **3,016,144**
[13] C
[51] **Int.Cl. G16H 20/10 (2018.01) A61B 5/145 (2006.01)**
[25] EN
[54] **BOLUS CALCULATOR WITH PROBABILISTIC GLUCOSE MEASUREMENTS**
[54] **CALCULATEUR DE BOLUS AVEC MESURES DU GLUCOSE PROBABILISTES**
[72] DUKE, DAVID L., US
[73] F. HOFFMANN-LA ROCHE AG, CH
[85] 2018-08-29
[86] 2017-02-23 (PCT/US2017/019030)
[87] (WO2017/151372)
[30] US (15/061,526) 2016-03-04

[11] **3,016,810**
[13] C
[51] **Int.Cl. A61K 31/4439 (2006.01) A61K 9/127 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ADMINISTERING PPAR.GAMMA. AGONISTS, SURFACTANT PEPTIDES AND PHOSPHOLIPIDS**
[54] **COMPOSITIONS ET PROCEDES POUR L'ADMINISTRATION D'AGONISTES DE PPARV, PEPTIDES TENSIOACTIFS ET PHOPHOLIPIDES**
[72] REHAN, VIRENDER K., US
[72] TORDAY, JOHN S., US
[72] WALTHER, FRANS J., US
[72] WARING, ALAN J., US
[72] GORDON, LARRY M., US
[73] LOS ANGELES BIOMEDICAL RESEARCH INSTITUTE AT HARBOR-UCLA MEDICAL CENTER, US
[85] 2018-09-05
[86] 2017-03-06 (PCT/US2017/020881)
[87] (WO2017/155857)
[30] US (62/304,845) 2016-03-07

[11] **3,017,957**
[13] C
[51] **Int.Cl. C22B 3/42 (2006.01) C22B 60/02 (2006.01)**
[25] EN
[54] **URANIUM RECOVERY**
[54] **RECUPERATION D'URANIUM**
[72] BESTER, JACO, NL
[72] CORBET, SOPHIE, FR
[72] DELAMEILLEURE, STEPHANE, FR
[72] GARCIA MOLINA, VERONICA, CH
[72] ZAGANIARIS, EMMANUEL, FR
[73] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2018-09-14
[86] 2017-03-15 (PCT/US2017/022399)
[87] (WO2017/209828)
[30] US (62/310,225) 2016-03-18

[11] **3,017,976**
[13] C
[51] **Int.Cl. H05K 1/18 (2006.01) H05K 3/46 (2006.01)**
[25] EN
[54] **ULTRASONIC LAMINATION OF DIELECTRIC CIRCUIT MATERIALS**
[54] **STRATIFICATION A ULTRASONS DE MATERIAUX DE CIRCUIT DIELECTRIQUE**
[72] KOCUREK, PATRICK J., US
[72] RAJENDRAN, SANKERLINGAM, US
[73] RAYTHEON COMPANY, US
[85] 2018-09-14
[86] 2017-03-30 (PCT/US2017/025006)
[87] (WO2017/176549)
[30] US (62/317,888) 2016-04-04

[11] **3,018,603**
[13] C
[51] **Int.Cl. C08F 120/20 (2006.01) C08K 5/09 (2006.01) C08K 5/098 (2006.01) C09K 5/20 (2006.01)**
[25] EN
[54] **A SINGLE- OR MULTIPLE COMPONENT COMPOSITION FOR PRODUCING A HYDROGEL**
[54] **COMPOSITION A UN OU PLUSIEURS COMPOSANTS POUR LA PRODUCTION D'UN HYDROGEL**
[72] HAUFE, MARKUS, CH
[72] GUT, CYRILL, CH
[73] SIKA TECHNOLOGY AG, CH
[85] 2018-09-21
[86] 2017-03-16 (PCT/EP2017/056328)
[87] (WO2017/162528)
[30] EP (16162363.2) 2016-03-24

[11] **3,018,904**
[13] C
[51] **Int.Cl. C12N 15/67 (2006.01)**
[25] EN
[54] **NOVEL MINIMAL UTR SEQUENCES**
[54] **NOUVELLES SEQUENCES UTR MINIMALES**
[72] PLANK, CHRISTIAN, DE
[72] RUDOLPH, CARSTEN, DE
[72] ANEJA, MANISH KUMAR, DE
[72] WEISS, LUDWIG, DE
[73] ETHRIS GMBH, DE
[85] 2018-09-25
[86] 2017-03-30 (PCT/EP2017/057592)
[87] (WO2017/167910)
[30] EP (16163264.1) 2016-03-31
[30] EP (16177094.6) 2016-06-30

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[11] **3,020,176**
[13] C
[51] **Int.Cl. H04N 21/439 (2011.01) H04N 21/233 (2011.01) H04N 21/242 (2011.01) H04N 21/422 (2011.01) H04N 21/43 (2011.01) H04N 21/4722 (2011.01) H04N 21/858 (2011.01)**
[25] EN
[54] **MEDIA ENVIRONMENT DRIVEN CONTENT DISTRIBUTION PLATFORM**
[54] **PLATEFORME DE DISTRIBUTION DE CONTENU PILOTEE POUR ENVIRONNEMENT MEDIA**
[72] FRECON, HENRY, III, US
[72] PHILLIPS, MICHAEL, US
[72] GREENE, PATRICK, US
[72] CARROLL, TIMOTHY, US
[73] SOURCE DIGITAL, INC., US
[85] 2018-10-04
[86] 2017-04-10 (PCT/US2017/026827)
[87] (WO2017/177232)
[30] US (15/094,538) 2016-04-08

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[11] **3,020,653**
[13] C
[51] **Int.Cl. C12N 1/18 (2006.01) A21D 8/04 (2006.01) A21D 10/00 (2006.01) C12N 1/16 (2006.01) C12N 15/31 (2006.01)**
[25] EN
[54] **FREEZE-RESISTANT YEAST AND USES THEREOF**
[54] **LEVURE RESISTANTE AU GEL ET SES UTILISATIONS**
[72] COHEN, TZAFRA, IL
[72] GENDELMAN, MORAN, IL
[72] KHUTORIAN, MARINA, IL
[72] MOR, SIVAN, IL
[72] SHEMESH, PAZ, IL
[72] LIFSHITZ MEDVED, YAEL, IL
[73] NEXTFERM TECHNOLOGIES LTD., IL
[85] 2018-10-11
[86] 2017-04-12 (PCT/IB2017/000419)
[87] (WO2017/178879)
[30] EP (16 164 933.0) 2016-04-12
[30] EP (16 197 393.8) 2016-11-04

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[11] **3,020,659**
[13] C
[51] **Int.Cl. B01J 23/40 (2006.01) B01D 53/04 (2006.01)**
[25] EN
[54] **OXIDATION CATALYST FOR LEAN COMPRESSED NATURAL GAS ENGINE**
[54] **CATALYSEUR D'OXYDATION POUR MOTEUR A GAZ NATUREL COMPRIME PAUVRE**
[72] WEI, XINYI, US
[72] GERLACH, OLGA, DE
[72] SCHULMAN, EMILY, US
[72] SUNDERMANN, ANDREAS, DE
[72] ROTH, STANLEY A., US
[72] AN, LIMIAO, CN
[73] BASF CORPORATION, US
[85] 2018-10-11
[86] 2017-04-12 (PCT/IB2017/052120)
[87] (WO2017/178991)
[30] CN (201610232574.0) 2016-04-14

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[11] **3,020,926**
[13] C
[51] **Int.Cl. C09K 11/06 (2006.01) C08G 61/02 (2006.01) G01N 33/58 (2006.01)**
[25] EN
[54] **PHOTOACTIVE MACROMOLECULES AND USES THEREOF**
[54] **MACROMOLECULES PHOTOACTIVES ET LEURS UTILISATIONS**
[72] EASWARAN, ARUNKUMAR, US
[72] GULNIK, SERGEI, US
[73] BECKMAN COULTER, INC., US
[85] 2018-10-12
[86] 2017-04-14 (PCT/US2017/027611)
[87] (WO2017/180998)
[30] US (62/323,444) 2016-04-15

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[11] **3,022,907**
[13] C
[51] **Int.Cl. G16B 40/00 (2019.01) G06N 20/00 (2019.01) C12Q 1/68 (2018.01) G01N 33/48 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR PRODUCING AN EXPANDED TRAINING SET FOR MACHINE LEARNING USING BIOLOGICAL SEQUENCES**
[54] **PROCEDES ET SYSTEMES DESTINES A PRODUIRE UN ENSEMBLE D'APPRENTISSAGE EXPANSE POUR L'APPRENTISSAGE MACHINE A L'AIDE DE SEQUENCES BIOLOGIQUES**
[72] FREY, BRENDAN JOHN, CA
[72] DELONG, ANDREW THOMAS, CA
[72] XIONG, HUI YUAN, CA
[73] DEEP GENOMICS INCORPORATED, CA
[85] 2018-11-02
[86] 2016-05-04 (PCT/CA2016/050510)
[87] (WO2017/190211)

[11] **3,023,598**
[13] C
[51] **Int.Cl. G06V 20/80 (2022.01) G06K 7/14 (2006.01)**
[25] EN
[54] **METHOD, IMAGING DEVICE AND SYSTEM FOR GENERATING A MEASURE OF AUTHENTICITY OF AN OBJECT**
[54] **PROCEDE, DISPOSITIF D'IMAGERIE ET SYSTEME SERVANT A GENERER UNE MESURE D'AUTHENTICITE D'UN OBJET**
[72] DECOUX, ERIC, CH
[73] SICPA HOLDING SA, CH
[85] 2018-11-08
[86] 2017-05-16 (PCT/EP2017/061684)
[87] (WO2017/211548)
[30] EP (16173961.0) 2016-06-10

[11] **3,023,632**
[13] C
[51] **Int.Cl. G07D 7/1205 (2016.01) G07D 7/202 (2016.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND COMPUTER PROGRAMS FOR IMAGING AN OBJECT AND GENERATING A MEASURE OF AUTHENTICITY OF THE OBJECT**
[54] **SYSTEMES, PROCEDES ET PROGRAMMES INFORMATIQUES D'IMAGERIE D'UN OBJET ET DE GENERATION D'UNE MESURE D'AUTHENTICITE DE L'OBJET**
[72] DORIER, JEAN-LUC, CH
[72] DINOEV, TODOR, CH
[72] RAEMY, XAVIER-CEDRIC, CH
[72] HALASZ, EDMUND, CH
[73] SICPA HOLDING SA, CH
[85] 2018-11-08
[86] 2017-06-26 (PCT/EP2017/065668)
[87] (WO2018/001942)
[30] EP (16177272.8) 2016-06-30

[11] **3,025,157**
[13] C
[51] **Int.Cl. H01R 9/24 (2006.01) H01R 13/52 (2006.01) H02G 3/22 (2006.01)**
[25] EN
[54] **TERMINAL BLOCK AND STUD FOR TRANSITIONNING AN ELECTRICAL CONNECTION BETWEEN TWO DISTINCT AREAS**
[54] **BLOC TERMINAL ET MONTANT DE TRANSITION D'UNE CONNEXION ELECTRIQUE ENTRE DEUX ZONES DISTINCTES**
[72] HORWATH, JEFFREY R., US
[72] SENKALSKI, JAMES A., US
[73] SUBMARINER ELECTRIC MOTOR LLC, US
[86] (3025157)
[87] (3025157)
[22] 2018-11-21
[30] US (62/592,233) 2017-11-29

[11] **3,025,402**
[13] C
[51] **Int.Cl. G06F 17/00 (2019.01) G06F 16/903 (2019.01)**
[25] EN
[54] **SYSTEMS AND METHODS RELATING TO DIGITAL IDENTITIES**
[54] **SYSTEMES ET METHODES ASSOCIES AUX IDENTITES NUMERIQUES**
[72] BRYSON, BRANDON CRAIG, US
[73] MASTERCARD INTERNATIONAL INCORPORATED, US
[86] (3025402)
[87] (3025402)
[22] 2018-11-27
[30] US (15/850,155) 2017-12-21

[11] **3,026,083**
[13] C
[51] **Int.Cl. A61K 31/221 (2006.01) A61K 31/198 (2006.01)**
[25] EN
[54] **METHODS OF TREATING PRADER-WILLI SYNDROME**
[54] **PROCEDES DE TRAITEMENT DU SYNDROME DE PRADER-WILLI**
[72] BURNETT, LISA COLE, US
[72] EGLI, DIETER, US
[72] LEIBEL, RUDOLPH L., US
[72] COTTER, SARA, US
[73] THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, US
[73] ACADIA PHARMACEUTICALS INC., US
[85] 2018-11-29
[86] 2017-06-02 (PCT/US2017/035655)
[87] (WO2017/210540)
[30] US (62/345,133) 2016-06-03
[30] US (62/375,662) 2016-08-16

[11] **3,028,465**
[13] C
[51] **Int.Cl. H04B 7/06 (2006.01) H04B 7/08 (2006.01)**
[25] EN
[54] **BEAM REFINEMENT FOR ACTIVE AND CANDIDATE BEAMS**
[54] **AFFINEMENT DE FAISCEAU POUR DES FAISCEAUX ACTIFS ET CANDIDATS**
[72] SADIQ, BILAL, US
[72] SAMPATH, ASHWIN, US
[72] LUO, TAO, US
[72] CEZANNE, JUERGEN, US
[72] SUBRAMANIAN, SUNDAR, US
[72] ISLAM, MUHAMMAD NAZMUL, US
[72] GOROKHOV, ALEXEI YURIEVITCH, US
[72] PATEL, SHRENIK, US
[72] LI, JUNYI, US
[73] QUALCOMM INCORPORATED, US
[85] 2018-12-18
[86] 2017-07-28 (PCT/US2017/044507)
[87] (WO2018/026661)
[30] US (62/369,642) 2016-08-01
[30] US (15/595,328) 2017-05-15

[11] **3,029,000**
[13] C
[51] **Int.Cl. B01L 3/00 (2006.01) B04B 5/04 (2006.01) G01N 21/07 (2006.01) G01N 33/48 (2006.01) G01N 33/487 (2006.01) G01N 33/49 (2006.01)**
[25] EN
[54] **DEVICES WITH MODIFIED CONDUITS**
[54] **DISPOSITIFS A CONDUITS MODIFIES**
[72] FARNAM, WARREN EDWARD, III, US
[72] TRIGUB, GREGORY, US
[72] SHARTLE, ROBERT JUSTICE, US
[72] KUEHNER, DANIEL E., US
[73] ZOETIS SERVICES LLC, US
[85] 2018-12-20
[86] 2017-06-27 (PCT/US2017/039460)
[87] (WO2018/005464)
[30] US (62/355,168) 2016-06-27

[11] **3,029,358**
[13] C
[51] **Int.Cl. B65G 47/00 (2006.01) B07C 5/28 (2006.01) B07C 5/344 (2006.01) B07C 5/346 (2006.01) B65G 47/34 (2006.01) G01N 23/04 (2018.01) G01V 8/14 (2006.01)**
[25] EN
[54] **COLLECTION BIN FOR AN IN-LINE PRODUCT INSPECTION SYSTEM, AND IN-LINE PRODUCT INSPECTION SYSTEM**
[54] **BAC DE COLLECTE D'UN SYSTEME D'INSPECTION DE PRODUIT EN LIGNE, ET SYSTEME D'INSPECTION DE PRODUIT EN LIGNE**
[72] KANIA, MICHAL, US
[73] METTLER-TOLEDO SAFELINE LTD., GB
[86] (3029358)
[87] (3029358)
[22] 2019-01-09
[30] EP (18154718.3) 2018-02-01

[11] **3,029,687**
[13] C
[51] **Int.Cl. H01M 8/18 (2006.01) H01M 10/056 (2010.01) H01M 10/627 (2014.01) H01M 10/36 (2010.01)**
[25] EN
[54] **NON-AQUEOUS REDOX FLOW BATTERIES**
[54] **BATTERIES NON AQUEUSES A FLUX REDOX**
[72] TACCA, ALESSANDRA, IT
[72] PELLEGRINO, ANDREA, IT
[73] ENI S.P.A., IT
[85] 2019-01-02
[86] 2017-07-07 (PCT/IB2017/054106)
[87] (WO2018/007991)
[30] IT (102016000071670) 2016-07-08

[11] **3,032,081**
[13] C
[51] **Int.Cl. H01Q 1/12 (2006.01) H01Q 1/06 (2006.01) H01Q 1/42 (2006.01) H01Q 1/44 (2006.01)**
[25] EN
[54] **A CONCEALED COMMUNICATIONS ANTENNA AND LIGHTING FEATURE**
[54] **UNITE ANTENNE DE COMMUNICATION CAMOUFLEE ET DISPOSITIF D'ECLAIRAGE**
[72] MATCHETT, ROBERT STEPHEN, AU
[72] WEST, MARK ROBERT JAMES, AU
[72] WILLIAMS, SCOTT DANIEL, AU
[73] ENE.HUB PTY LTD, AU
[85] 2019-01-25
[86] 2017-07-26 (PCT/AU2017/050773)
[87] (WO2018/018083)
[30] AU (2016902940) 2016-07-26

[11] **3,033,271**
[13] C
[51] **Int.Cl. C07K 14/195 (2006.01) A23L 33/195 (2016.01) A61K 38/00 (2006.01) C07K 14/32 (2006.01)**
[25] EN
[54] **PHENYLALANINE-FREE PROTEIN FOR THE TREATMENT OF PKU**
[54] **PROTEINE SANS PHENYLALANINE POUR LE TRAITEMENT DE LA PKU**
[72] HOFFMANN, BERNHARD, DE
[72] MUCKE, YVONNE, DE
[72] RASCHE, STEFAN, DE
[72] JABLONKA, NATALIA, DE
[72] SCHILLBERG, STEFAN, DE
[73] METAX INSTITUT FUR DIATETIK GMBH, DE
[85] 2019-02-07
[86] 2017-08-30 (PCT/EP2017/071814)
[87] (WO2018/041920)
[30] EP (16186895.5) 2016-09-01

[11] **3,033,516**
[13] C
[51] **Int.Cl. C02F 1/28 (2006.01) B01J 20/00 (2006.01) B01J 20/02 (2006.01) B01J 20/28 (2006.01) C02F 1/00 (2006.01)**
[25] EN
[54] **HIGH PERMEABILITY MEDIA MIX (HPMM) FOR PHOSPHOROUS AND NITROGEN REMOVAL FROM CONTAMINATED WATERS**
[54] **MELANGE DE MILIEUX A PERMEABILITE ELEVEE (HPMM) POUR L'ELIMINATION DU PHOSPHORE ET DE L'AZOTE PRESENTS DANS DES EAUX CONTAMINEES**
[72] DAVIS, ALLEN P., US
[72] OSTROM, TRAVIS, US
[72] WHITE, CHARLES, US
[73] UNIVERSITY OF MARYLAND, US
[73] PAVERGUIDE, INC., US
[85] 2019-02-08
[86] 2017-08-14 (PCT/US2017/046834)
[87] (WO2018/032019)
[30] US (62/374,583) 2016-08-12

[11] **3,033,926**
[13] C
[51] **Int.Cl. A47F 13/00 (2006.01) A47F 7/024 (2006.01) A47G 29/02 (2006.01)**
[25] EN
[54] **ANTI-SWEEP MECHANISM FOR MERCHANDISE DISPLAY HOOK**
[54] **MECANISME D'ANTI-BALAYAGE POUR LES CROCHETS DE PRESENTOIR DE MARCHANDISES**
[72] VOGLER, JAY, CA
[72] GIL, MARTIN, CA
[72] KOSARA, MARIAN, CA
[73] MARKETING IMPACT LIMITED, CA
[86] (3033926)
[87] (3033926)
[22] 2019-02-15

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[11] **3,034,581**
[13] C
[51] **Int.Cl. A44C 5/20 (2006.01) A43C 5/00 (2006.01) A44B 19/12 (2006.01) A44B 19/26 (2006.01) A44C 5/18 (2006.01) A44C 5/22 (2006.01)**
[25] EN
[54] **AN INTERCHANGEABLE JEWELRY LINKING SYSTEM AND CLASPS THEREOF**
[54] **SYSTEME DE LIAISON DE BIJOU INTERCHANGEABLE ET SON FERMOIR**
[72] AVIV, DAVID, IL
[72] DUKAT, HELEN, IL
[73] MANGO TREE JEWELRY LTD, IL
[73] AVIV, DAVID, IL
[73] DUKAT, HELEN, IL
[85] 2019-02-21
[86] 2017-08-24 (PCT/IL2017/050946)
[87] (WO2018/042419)
[30] IL (247521) 2016-08-28

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[11] **3,035,047**
[13] C
[51] **Int.Cl. E06B 9/42 (2006.01) E06B 9/50 (2006.01)**
[25] EN
[54] **IDLER END FOR A ROLLER BLIND**
[54] **EXTREMITE DE ROUE FOLLE DESTINEE A UN STORE ENROULEUR**
[72] NG, PHILIP, CA
[73] ZMC METAL COATING INC., CA
[86] (3035047)
[87] (3035047)
[22] 2019-02-27
[30] US (62/643,939) 2018-03-16

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[11] **3,035,307**
[13] C
[51] **Int.Cl. H02P 6/28 (2016.01) B62D 5/04 (2006.01) H02H 7/08 (2006.01) H02P 23/14 (2006.01)**
[25] EN
[54] **TECHNIQUES FOR LIMITING ELECTRICAL CURRENT PROVIDED TO A MOTOR IN AN ELECTRIC POWER STEERING SYSTEM**
[54] **TECHNIQUES DE LIMITATION DE COURANT ELECTRIQUE ALIMENTANT UN MOTEUR DANS UN SYSTEME DE DIRECTION ASSISTEE ELECTRIQUE**
[72] NOBERT, GHISLAIN, CA
[72] PALARDY, ALEXANDRE, CA
[73] BRP MEGATECH INDUSTRIES INC., CA
[85] 2019-02-27
[86] 2017-09-01 (PCT/IB2017/055286)
[87] (WO2018/042389)
[30] US (62/383,306) 2016-09-02

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[11] **3,037,058**
[13] C
[51] **Int.Cl. G01S 17/894 (2020.01)**
[25] EN
[54] **PROJECTOR WITH SPATIAL LIGHT MODULATION**
[54] **PROJECTEUR AVEC MODULATION SPATIALE DE LUMIERE**
[72] COHEN, DAVID, US
[72] PELLMAN, ASSAF, US
[72] TEKOLSTE, ROBERT D., US
[72] FELZENSHTEIN, SHLOMO, US
[72] YAHAV, GIORA, US
[73] MAGIC LEAP, INC., US
[85] 2019-03-14
[86] 2017-09-29 (PCT/US2017/054385)
[87] (WO2018/064520)
[30] US (62/402,871) 2016-09-30

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[11] **3,037,586**
[13] C
[51] **Int.Cl. F15B 19/00 (2006.01) F15B 1/02 (2006.01)**
[25] EN
[54] **LOAD-MEASURING HYDRAULIC CYLINDER**
[54] **VERIN HYDRAULIQUE DE MESURE DE CHARGE**
[72] STEFFENHAGEN, TIMOTHY S., US
[72] WHITE, WILLIAM BENJAMIN, US
[73] NATIONAL OILWELL VARCO, L.P., US
[85] 2019-03-19
[86] 2017-10-23 (PCT/US2017/057799)
[87] (WO2018/080958)
[30] US (15/334,981) 2016-10-26

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[11] **3,037,610**
[13] C
[51] **Int.Cl. A01D 41/14 (2006.01) A01D 75/28 (2006.01)**
[25] EN
[54] **HEADER HEIGHT CONTROL SYSTEM WITH MULTIPLE HEIGHT SENSORS**
[54] **SYSTEME DE COMMANDE DE HAUTEUR DE COLLECTEUR AVEC CAPTEURS DE HAUTEUR MULTIPLES**
[72] COOK, JOEL T., US
[72] LONG, ZACHARY, US
[73] CNH INDUSTRIAL AMERICA LLC, US
[85] 2019-03-20
[86] 2017-09-08 (PCT/US2017/050740)
[87] (WO2018/049202)
[30] US (15/262,439) 2016-09-12

[11] **3,039,397**
[13] C
[51] **Int.Cl. B01J 23/38 (2006.01) B01D 53/34 (2006.01) B01J 37/02 (2006.01)**
[25] EN
[54] **CATALYTIC ARTICLES FOR USE IN THE TREATMENT OF EXHAUST GASES OF INTERNAL COMBUSTION ENGINES**
[54] **ARTICLES CATALYTIQUES A UTILISER DANS LE TRAITEMENT DE GAZ D'ECHAPPEMENT DE MOTEURS A COMBUSTION INTERNE**
[72] LIU, XIN ZHU, CN
[72] GALLIGAN, MICHAEL P., US
[72] LIU, YE, US
[72] KIM, YOUNG GIN, US
[72] KUDZIELA, MILENA, US
[72] LIU, XINSHENG, US
[72] TRAN, PASCALINE, US
[73] BASF CORPORATION, US
[85] 2019-04-04
[86] 2016-10-12 (PCT/CN2016/101898)
[87] (WO2018/068227)

[11] **3,039,628**
[13] C
[51] **Int.Cl. A01C 5/06 (2006.01) A01C 7/06 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **SEED DELIVERY APPARATUS**
[54] **APPAREIL DE DISTRIBUTION DE SEMENCES**
[72] RADTKE, IAN, US
[72] LEVY, KENT, US
[73] PRECISION PLANTING LLC, US
[85] 2019-04-04
[86] 2017-11-01 (PCT/US2017/059584)
[87] (WO2018/093568)
[30] US (62/423,105) 2016-11-16

[11] **3,041,666**
[13] C
[51] **Int.Cl. G01F 1/40 (2006.01) G01F 1/50 (2006.01)**
[25] EN
[54] **ADJUSTABLE FLOW METER SYSTEM**
[54] **SYSTEME DE DEBITMETRE REGLABLE**
[72] JONES, DAVID LELAN, US
[73] EMERSON AUTOMATION SOLUTIONS MEASUREMENT SYSTEMS & SERVICES LLC, US
[85] 2019-04-24
[86] 2017-10-27 (PCT/US2017/058724)
[87] (WO2018/081536)
[30] US (15/336,426) 2016-10-27

[11] **3,042,460**
[13] C
[51] **Int.Cl. G02B 27/00 (2006.01) G02B 27/01 (2006.01)**
[25] EN
[54] **NEAR-EYE SEQUENTIAL LIGHT-FIELD PROJECTOR WITH CORRECT MONOCULAR DEPTH CUES**
[54] **PROJECTEUR DE CHAMP LUMINEUX SEQUENTIEL PROCHE DE L'OEIL A REPERES DE PROFONDEUR MONOCULAIRE CORRECTS**
[72] SLUKA, TOMAS, CH
[73] CREAL SA, CH
[85] 2019-05-01
[86] 2017-09-19 (PCT/IB2017/055664)
[87] (WO2018/091984)
[30] US (62/422,373) 2016-11-15

[11] **3,043,109**
[13] C
[51] **Int.Cl. C03B 27/06 (2006.01) A61M 5/30 (2006.01)**
[25] FR
[54] **METHOD FOR AIR-QUENCHING AN ELONGATED HOLLOW GLASS BODY COMPRISING AN AXIAL BORE**
[54] **PROCEDE DE TREMPE A L'AIR D'UN CORPS CREUX EN VERRE ALLONGE COMPRENANT UN PERCAGE AXIAL**
[72] AURIEL, CHRISTOPHE, FR
[72] VIGOT, XAVIER, FR
[73] CROSSJECT, FR
[85] 2019-05-07
[86] 2017-11-07 (PCT/FR2017/053036)
[87] (WO2018/091798)
[30] FR (16/61064) 2016-11-15

[11] **3,045,150**
[13] C
[51] **Int.Cl. G01N 17/04 (2006.01) C23F 13/22 (2006.01)**
[25] EN
[54] **APPARATUS FOR MEASURING A CATHODIC PROTECTION CONDITION OF A BURIED STEEL STRUCTURE, AND METHOD**
[54] **APPAREIL DE MESURE D'UN ETAT DE PROTECTION CATHODIQUE D'UNE STRUCTURE D'ACIER ENFOUIE, ET METHODE**
[72] GUMMOW, ROBERT, CA
[72] FINGAS, DANIEL, CA
[72] BAHGAT, HYCEM, CA
[73] CORROSION SERVICE COMPANY LIMITED, CA
[86] (3045150)
[87] (3045150)
[22] 2019-06-03
[30] US (62/680631) 2018-06-05

[11] **3,045,186**
[13] C
[51] **Int.Cl. B01L 3/00 (2006.01) A61B 10/00 (2006.01) G01N 1/00 (2006.01) G01N 21/65 (2006.01) G01N 33/94 (2006.01) G01N 1/02 (2006.01)**
[25] EN
[54] **DRUG DETECTION VIA SURFACE ENHANCED RAMAN SPECTROSCOPY**
[54] **DETECTION DE MEDICAMENT PAR SPECTROSCOPIE DE L'EFFET RAMAN EXALTE DE SURFACE**
[72] STADTHAGEN, TORSTEN, DE
[72] FREMMER, MARKUS, DE
[73] SECURETEC DETEKTIONS-SYSTEME AG, DE
[85] 2019-05-28
[86] 2017-12-04 (PCT/EP2017/081331)
[87] (WO2018/100202)
[30] EP (16201916.0) 2016-12-02

[11] **3,047,614**
[13] C
[51] **Int.Cl. B32B 7/06 (2019.01) B32B 15/08 (2006.01) B32B 27/20 (2006.01) A61L 9/04 (2006.01)**
[25] EN
[54] **MULTILAYER STRUCTURE FOR DIFFUSION OF VOLATILE SUBSTANCES**
[54] **STRUCTURE MULTICOUCHE POUR DIFFUSION DE SUBSTANCES VOLATILES**
[72] MORHAIN, CEDRIC, ES
[72] SORDO, LIVIO, IT
[72] DEFLORIAN, STEFANO, IT
[73] ZOBELE HOLDING SPA, IT
[85] 2019-06-19
[86] 2016-12-27 (PCT/EP2016/082693)
[87] (WO2018/121837)

[11] **3,049,152**
[13] C
[51] **Int.Cl. G02F 1/136 (2006.01)**
[25] EN
[54] **PIXEL UNIT STRUCTURE AND MANUFACTURING METHOD THEREOF**
[54] **STRUCTURE D'UNITE DE PIXEL ET SON PROCEDE DE FABRICATION**
[72] TSENG, SHIH-HSIEN, CN
[73] TSENG, SHIH-HSIEN, CN
[85] 2019-07-03
[86] 2017-01-04 (PCT/CN2017/070146)
[87] (WO2018/126358)

[11] **3,051,149**
[13] C
[51] **Int.Cl. H01M 4/38 (2006.01) H01M 10/052 (2010.01) H01M 10/0525 (2010.01) H01M 4/36 (2006.01)**
[25] EN
[54] **ELECTRICALLY RESTORABLE RECHARGEABLE BATTERY, AND METHODS OF MANUFACTURE AND METHODS OF OPERATING THE BATTERY**
[54] **BATTERIE RECHARGEABLE RESTAURABLE ELECTRIQUEMENT, ET PROCEDES DE FABRICATION ET PROCEDES DE FONCTIONNEMENT DE LA BATTERIE**
[72] OFER, DAVID, US
[72] SRIRAMULU, SURESH, US
[73] CAMX POWER LLC, US
[85] 2019-07-19
[86] 2018-01-31 (PCT/US2018/016065)
[87] (WO2018/144493)
[30] US (62/452,636) 2017-01-31
[30] US (15/793,675) 2017-10-25

[11] **3,051,493**
[13] C
[51] **Int.Cl. G01N 33/24 (2006.01) G06Q 50/02 (2012.01) E21B 47/00 (2012.01) E21B 49/00 (2006.01) E21C 39/00 (2006.01) G01V 9/00 (2006.01) G01V 11/00 (2006.01)**
[25] EN
[54] **A METHOD AND SYSTEM FOR VALIDATING LOGGING DATA FOR A MINERAL SAMPLE**
[54] **PROCEDE ET SYSTEME DE VALIDATION DE DONNEES DE DIAGRAPHIE D'UN ECHANTILLON MINERAL**
[72] HOLDEN, EUN-JUNG, AU
[72] WEDGE, DANIEL, AU
[72] PAINE, MARK, AU
[72] GREEN, THOMAS, AU
[72] LEWAN, ANDREW, AU
[73] TECHNOLOGICAL RESOURCES PTY. LIMITED, AU
[73] THE UNIVERSITY OF WESTERN AUSTRALIA, AU
[85] 2019-07-24
[86] 2018-01-24 (PCT/AU2018/050046)
[87] (WO2018/136998)
[30] AU (2017900230) 2017-01-25

[11] **3,054,731**
[13] C
[51] **Int.Cl. G01V 1/38 (2006.01) G01V 1/28 (2006.01) G01V 1/36 (2006.01)**
[25] EN
[54] **SURFACE-SCATTERED NOISE REDUCTION**
[54] **REDUCTION DE BRUIT A DIFFUSION DE SURFACE**
[72] LIU, HONGWEI, SA
[72] YI, LUO, SA
[72] ETIENNE, VINCENT, SA
[72] CLEMENT, BENJAMIN, BE
[73] SAUDI ARABIAN OIL COMPANY, SA
[85] 2019-08-26
[86] 2018-02-27 (PCT/US2018/019834)
[87] (WO2018/157104)
[30] US (62/463,988) 2017-02-27
[30] US (15/864,286) 2018-01-08

[11] **3,054,883**
[13] C
[51] **Int.Cl. A01N 37/44 (2006.01) A01N 37/34 (2006.01) A01N 43/54 (2006.01) A01N 43/653 (2006.01) A01P 3/00 (2006.01)**
[25] EN
[54] **FUNGICIDAL COMBINATIONS**
[54] **COMBINAISONS FONGICIDES**
[72] FABRI, CARLOS EDUARDO, BR
[72] SHROFF, RAJJU DEVIDAS, IN
[72] SHROFF, JAIDEV RAJNIKANT, AE
[72] SHROFF, VIKRAM RAJNIKANT, AE
[73] UPL LTD, IN
[85] 2019-08-28
[86] 2018-02-16 (PCT/IB2018/050964)
[87] (WO2018/162999)
[30] IN (201731008009) 2017-03-07

[11] **3,056,371**
[13] C
[51] **Int.Cl. H04N 13/261 (2018.01) G06T 7/50 (2017.01)**
[25] EN
[54] **EFFICIENT IMPLEMENTATION OF JOINT BILATERAL FILTER**
[54] **MISE EN OEUVRE EFFICACE D'UN FILTRE BILATERAL CONJOINT**
[72] RIEMENS, ABRAHAM KAREL, NL
[72] BARENBRUG, BART GERARD BERNARD, NL
[73] ULTRA-D COOPERATIEF U.A., NL
[85] 2019-09-12
[86] 2018-04-04 (PCT/EP2018/058604)
[87] (WO2018/189010)
[30] EP (17166455.0) 2017-04-13

[11] **3,056,738**
[13] C
[51] **Int.Cl. H04W 72/232 (2023.01)**
[25] EN
[54] **USER TERMINAL AND RADIO COMMUNICATION METHOD**
[54] **TERMINAL D'UTILISATEUR, ET PROCEDE DE RADIOCOMMUNICATION**
[72] TAKEDA, KAZUKI, JP
[72] NAGATA, SATOSHI, JP
[72] MU, QIN, CN
[72] LIU, LIU, CN
[72] NA, CHONGNING, CN
[72] WANG, XIN, CN
[72] WANG, JING, CN
[72] WANG, LIHUI, CN
[72] LIU, MIN, CN
[72] JIANG, HUILING, CN
[73] NTT DOCOMO, INC., JP
[85] 2019-09-16
[86] 2017-03-17 (PCT/JP2017/010985)
[87] (WO2018/167958)

[11] **3,056,765**
[13] C
[51] **Int.Cl. B01J 19/00 (2006.01) C12Q 1/6876 (2018.01) C07H 21/04 (2006.01)**
[25] EN
[54] **SEQUENCING AND HIGH RESOLUTION IMAGING**
[54] **SEQUENCAGE ET IMAGERIE HAUTE RESOLUTION**
[72] STAKER, BRYAN P., US
[72] LIU, NIANDONG, US
[72] FURTADO, MANOHAR R., US
[72] FANG, RIXUN, US
[72] BURNS, NORMAN, US
[72] OWENS, WINDSOR, US
[73] PACIFIC BIOSCIENCES OF CALIFORNIA, INC., US
[85] 2019-09-16
[86] 2018-03-19 (PCT/US2018/023187)
[87] (WO2018/170518)
[30] US (62/473,163) 2017-03-17

[11] **3,059,963**
[13] C
[51] **Int.Cl. A23L 33/18 (2016.01) A23K 10/12 (2016.01) A23K 10/14 (2016.01) A23K 20/147 (2016.01) A23L 33/125 (2016.01) A23L 33/22 (2016.01) A23J 3/34 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING FEATHER-BASED FOOD PRODUCTS**
[54] **PROCEDES DE PRODUCTION DE PRODUITS ALIMENTAIRES A BASE DE PLUMES**
[72] YONEMOTO, LUCIO HIROSHI, US
[72] ZIVANOVIC, SVETLANA, US
[72] GUO, PING, US
[73] MARS, INCORPORATED, US
[85] 2019-10-11
[86] 2018-05-29 (PCT/US2018/034951)
[87] (WO2018/222620)
[30] US (62/512,466) 2017-05-30
[30] US (62/531,189) 2017-07-11

[11] **3,061,333**
[13] C
[51] **Int.Cl. G16H 20/40 (2018.01) A61B 34/00 (2016.01) G16H 40/67 (2018.01)**
[25] EN
[54] **VIRTUAL REALITY TRAINING, SIMULATION, AND COLLABORATION IN A ROBOTIC SURGICAL SYSTEM**
[54] **APPRENTISSAGE, SIMULATION ET COLLABORATION EN REALITE VIRTUELLE DANS UN ROBOT CHIRURGICAL**
[72] GARCIA KILROY, PABLO EDUARDO, US
[72] JOHNSON, ERIC MARK, US
[72] SIU, BERNARD FAI KIN, US
[72] YU, HAORAN, US
[73] VERB SURGICAL INC., US
[85] 2019-10-23
[86] 2018-06-28 (PCT/US2018/040138)
[87] (WO2019/006202)
[30] US (62/526,919) 2017-06-29
[30] US (16/019,132) 2018-06-26

[11] **3,062,075**
[13] C
[51] **Int.Cl. C12Q 1/68 (2018.01) C12Q 1/6876 (2018.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ISOLATING TARGET NUCLEIC ACIDS**
[54] **COMPOSITIONS ET PROCEDES POUR ISOLER DES ACIDES NUCLEIQUES CIBLES**
[72] SHAH, ANKUR, US
[73] GEN-PROBE INCORPORATED, US
[85] 2019-10-30
[86] 2018-05-10 (PCT/US2018/032044)
[87] (WO2018/209068)
[30] US (62/504,900) 2017-05-11

[11] **3,062,828**
[13] C
[51] **Int.Cl. G06F 13/36 (2006.01) G06F 13/37 (2006.01) H04L 12/40 (2006.01) H04L 12/417 (2006.01)**
[25] EN
[54] **SEQUENTIAL NODE IDENTIFICATION IN MULTIPLE-COMPARTMENT DISPENSING ENCLOSURES**
[54] **IDENTIFICATION DE NOEUD SEQUENTIEL DANS DES ENCEINTES DE DISTRIBUTION A COMPARTIMENTS MULTIPLES**
[72] HENTZ, TIMOTHY P., US
[72] ALLEN, JAMES M., US
[73] APEX INDUSTRIAL TECHNOLOGIES LLC, US
[85] 2019-11-07
[86] 2018-05-15 (PCT/US2018/032708)
[87] (WO2018/213270)
[30] US (62/506,495) 2017-05-15

[11] **3,062,881**
[13] C
[51] **Int.Cl. B01D 61/50 (2006.01) B01D 63/08 (2006.01) B01J 47/12 (2017.01)**
[25] EN
[54] **ELECTRODIALYSIS STACK**
[54] **EMPILEMENT D'ELECTRODIALYSE**
[72] BARBER, JOHN H., CA
[72] GUTOWSKI, WOJCIECH, CA
[72] ZHENG, YONGCHANG, US
[72] MACDONALD, RUSSELL JAMES, US
[73] BL TECHNOLOGIES, INC., US
[85] 2019-10-29
[86] 2017-05-04 (PCT/US2017/031060)
[87] (WO2018/203906)

[11] **3,062,883**
[13] C
[51] **Int.Cl. A61K 35/00 (2006.01) A61K 39/00 (2006.01) A61K 45/06 (2006.01)**
[25] EN
[54] **VACCINE CONTAINING CANCER CELLS INACTIVATED BY PHOTODYNAMIC TREATMENT WITH METAL-BASED COORDINATION COMPLEXES, AND IMMUNOTHERAPY METHOD USING SAME**
[54] **VACCIN CONTENANT DES CELLULES CANCEREUSES INACTIVEES PAR TRAITEMENT PHOTODYNAMIQUE AVEC DES COMPLEXES DE COORDINATION A BASE DE METAL, ET METHODE D'IMMUNOTHERAPIE UTILISANT CE DERNIER**
[72] MANDEL, ARKADY, CA
[73] THERALASE TECHNOLOGIES INC., CA
[85] 2019-11-07
[86] 2018-05-11 (PCT/US2018/032274)
[87] (WO2018/209203)
[30] US (62/504,580) 2017-05-11

[11] **3,067,081**
[13] C
[51] **Int.Cl. H04W 52/18 (2009.01) H04W 52/14 (2009.01)**
[25] EN
[54] **TRANSMIT POWER DETERMINING METHOD, PROCESSING CHIP, AND COMMUNICATIONS DEVICE**
[54] **PROCEDE DE DETERMINATION DE PUISSANCE DE TRANSIT, PUCE DE TRAITEMENT ET APPAREIL DE COMMUNICATION**
[72] ZHANG, XI, CN
[72] GUAN, PENG, CN
[72] TANG, XIAOYONG, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2019-12-12
[86] 2018-06-14 (PCT/CN2018/091226)
[87] (WO2018/228465)
[30] CN (201710459810.7) 2017-06-16
[30] CN (201710698502.X) 2017-08-15

[11] **3,067,256**
[13] C
[51] **Int.Cl. H01M 6/32 (2006.01) H01M 8/04302 (2016.01) E21B 41/00 (2006.01)**
[25] EN
[54] **DOWNHOLE POWER SOURCE**
[54] **SOURCE D'ENERGIE DE FOND**
[72] HUNTER, JOHN, GB
[72] WILSON, ANTHONY, GB
[72] THORPE, MATTHEW RAMSEY, GB
[72] ROSIE, JOYCE ANN, GB
[73] SWELLFIX UK LIMITED, GB
[85] 2019-12-13
[86] 2018-06-14 (PCT/GB2018/051644)
[87] (WO2018/229496)
[30] GB (1709629.8) 2017-06-16

[11] **3,067,570**
[13] C
[51] **Int.Cl. F24F 11/30 (2018.01) F24D 19/10 (2006.01) F25B 45/00 (2006.01) F25B 49/02 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PUMPING DOWN FLAMMABLE REFRIGERANT**
[54] **SYSTEMES ET METHODES POUR POMPER LES REFRIGERANTS INFLAMMABLES**
[72] CRAWFORD, CARL T., US
[72] GOKHALE, UMESH, US
[73] LENNOX INDUSTRIES INC., US
[86] (3067570)
[87] (3067570)
[22] 2020-01-13
[30] US (16/256,319) 2019-01-24

[11] **3,067,742**
[13] C
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **AN OPTICAL FIBER RIBBON ASSEMBLY AND A METHOD OF PRODUCING THE SAME**
[54] **ASSEMBLAGE DE RUBANS DE FIBRES OPTIQUES ET SON PROCEDE DE PRODUCTION**
[72] FALLAHMOHAMMADI, EHSAN, IT
[72] SACH, JOHN R., IT
[72] WELLS, BEN H., IT
[73] PRYSMIAN S.P.A., IT
[85] 2019-12-18
[86] 2017-07-11 (PCT/EP2017/067455)
[87] (WO2019/011418)

[11] **3,068,193**
[13] C
[51] **Int.Cl. B22F 3/105 (2006.01) B33Y 10/00 (2015.01) B33Y 80/00 (2015.01) B22F 3/12 (2006.01) B22F 3/15 (2006.01) B22F 5/00 (2006.01) B22F 5/08 (2006.01) B22F 5/10 (2006.01) B22F 7/08 (2006.01)**
[25] EN
[54] **CAPSULE FOR HOT ISOSTATIC PRESSING**
[54] **CAPSULE DESTINEE A UNE COMPRESSION ISOSTATIQUE A CHAUD**
[72] JOHN, DAVID, GB
[72] DAVIES, SUSAN, GB
[73] BODYCOTE H.I.P. LIMITED, GB
[85] 2019-12-20
[86] 2018-07-03 (PCT/GB2018/051872)
[87] (WO2019/008348)
[30] GB (1710787.1) 2017-07-05

[11] **3,070,831**
[13] C
[51] **Int.Cl. H05B 45/10 (2020.01) H05B 45/325 (2020.01)**
[25] EN
[54] **A PWM DIMMING CIRCUIT WITH LOW STAND-BY POWER**
[54] **CIRCUIT GRADATEUR A MODULATION D'IMPULSIONS EN DUREE (MID) A FAIBLE ALIMENTATION DE SECOURS**
[72] XING, DONG, CN
[72] WANG, AIJUN, CN
[72] CHEN, WEIHU, CN
[72] ZHOU, XIN, CN
[72] WANG, FANBIN, CN
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3070831)
[87] (3070831)
[22] 2020-02-04
[30] CN (201910295648.9) 2019-04-12

[11] **3,071,425**
[13] C
[51] **Int.Cl. B61L 23/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR VISUALIZING AND ANALYZING A RAIL SURFACE**
[54] **SYSTEMES ET PROCEDES DE VISUALISATION ET D'ANALYSE D'UNE SURFACE DE RAIL**
[72] DICK, MATTHEW, US
[72] LIU, ZHIPENG, US
[72] YILMA, SAMSON, US
[73] ENSCO, INC., US
[85] 2020-01-27
[86] 2018-07-27 (PCT/US2018/044212)
[87] (WO2019/023658)
[30] US (62/538,531) 2017-07-28
[30] US (62/538,894) 2017-07-31

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[11] **3,072,676**
[13] C
[51] **Int.Cl. A61L 2/07 (2006.01) A61J 1/06 (2006.01)**
[25] EN
[54] **METHOD OF PREPARING CONTAINERS FOR BLOOD-DERIVED PRODUCTS**
[54] **PROCEDE DE PREPARATION DE RECIPIENTS POUR PRODUITS DERIVES DU SANG**
[72] SALVADOR MATURANA, JOSEP, ES
[73] GRIFOLS WORLDWIDE OPERATIONS LIMITED, IE
[86] (3072676)
[87] (3072676)
[22] 2020-02-13
[30] EP (19 382 168.3) 2019-03-05

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[11] **3,074,603**
[13] C
[51] **Int.Cl. B01D 3/14 (2006.01) C10G 7/00 (2006.01)**
[25] EN
[54] **DUAL-DIVIDING WALL COLUMN WITH MULTIPLE PRODUCTS**
[54] **COLONNE A PAROI DE SEPARATION DOUBLE A PRODUITS MULTIPLES**
[72] PISZCZEK, ROBERT, US
[72] HERGENROTHER, MICHAEL, US
[72] ALBERT, BRIAN D., US
[72] SIMONETTY, JOSE X., US
[72] HEINS, BRIAN W., US
[72] SINGH, VIKRAM, US
[72] WANG, ZHONGCHENG, US
[73] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2020-03-02
[86] 2018-09-21 (PCT/US2018/052126)
[87] (WO2019/067314)
[30] US (62/564,505) 2017-09-28

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[11] **3,075,360**
[13] C
[51] **Int.Cl. H04W 68/02 (2009.01)**
[25] EN
[54] **NODES AND METHODS FOR HANDLING PAGING**
[54] **NOEUDS ET PROCEDES DE GESTION DE RADIOMESSAGERIE**
[72] CHEN, QIAN, SE
[72] SCHLIWA-BERTLING, PAUL, SE
[72] ROMMER, STEFAN, SE
[73] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2020-03-09
[86] 2018-10-05 (PCT/EP2018/077198)
[87] (WO2019/068898)
[30] US (62/568833) 2017-10-06

---

[11] **3,075,442**
[13] C
[51] **Int.Cl. G01N 33/569 (2006.01)**
[25] EN
[54] **PCT AND PRO-ADM AS MARKERS FOR MONITORING ANTIBIOTIC TREATMENT**
[54] **PCT ET PRO-ADM UTILISEES COMME MARQUEURS DE CONTROLE DANS UN TRAITEMENT ANTIBIOTIQUE**
[72] WILSON, DARIUS, DE
[73] B.R.A.H.M.S GMBH, DE
[85] 2020-03-10
[86] 2018-09-13 (PCT/EP2018/074724)
[87] (WO2019/053117)
[30] EP (17190913.8) 2017-09-13

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[11] **3,076,351**
[13] C
[51] **Int.Cl. F28C 1/14 (2006.01) F28D 1/00 (2006.01) F28F 9/00 (2006.01) F28F 25/02 (2006.01)**
[25] EN
[54] **AIR-COOLED HEAT TRANSFER DEVICE WITH INTEGRATED AND MECHANIZED AIR PRE-COOL SYSTEM**
[54] **DISPOSITIF DE TRANSFERT DE CHALEUR REFROIDI PAR AIR AVEC SYSTEME DE PRE-REFROIDISSEMENT D'AIR INTEGRE ET MECANISE**
[72] BYRNE, TOM, US
[73] EVAPCO, INC., US
[85] 2020-03-18
[86] 2018-09-19 (PCT/US2018/051822)
[87] (WO2019/060463)
[30] US (62/560,294) 2017-09-19
[30] US (16/136,134) 2018-09-19

[11] **3,079,382**
[13] C
[51] **Int.Cl. H04B 7/0456 (2017.01) H04B 7/06 (2006.01)**
[25] EN
[54] **INITIATOR DEVICE, RESPONDER DEVICE, AND SYSTEM**
[54] **DISPOSITIF INITIATEUR, DISPOSITIF REPONDEUR ET SYSTEME**
[72] HUANG, LEI, JP
[72] MOTOZUKA, HIROYUKI, JP
[72] SAKAMOTO, TAKENORI, JP
[73] PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA, US
[85] 2020-04-16
[86] 2018-10-17 (PCT/JP2018/038686)
[87] (WO2019/078261)
[30] US (62/575,264) 2017-10-20
[30] US (62/628,199) 2018-02-08
[30] JP (2018-172815) 2018-09-14

[11] **3,081,075**
[13] C
[51] **Int.Cl. H05B 47/19 (2020.01) H04W 88/06 (2009.01) H04W 4/30 (2018.01)**
[25] EN
[54] **CONTROL DEVICE, LIGHTING DEVICE INCLUDING THE SAME, LIGHTING SYSTEM AND METHOD THEREOF**
[54] **DISPOSITIF DE COMMANDE, DISPOSITIF D'ECLAIRAGE LE COMPRENANT, SYSTEME D'ECLAIRAGE ET PROCEDE CONNEXE**
[72] GUO, GUANGTING, CN
[72] XIAO, KUN, CN
[72] SOMMERS, MATHEW L., US
[72] QIAN, XIN, CN
[72] LIU, CHENGBIN, CN
[72] HONG, CHUNGFENG, CN
[72] BHANDARI, ABHINAV, US
[73] SAVANT TECHNOLOGIES LLC, US
[86] (3081075)
[87] (3081075)
[22] 2020-05-21
[30] CN (201910598692.7) 2019-07-04

[11] **3,082,698**
[13] C
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **RANDOM ACCESS WITH BANDWIDTH PART SWITCH**
[54] **ACCES ALEATOIRE AVEC COMMUTATEUR DE PARTIE DE BANDE PASSANTE**
[72] TURTINEN, SAMULI, FI
[72] WU, CHUNLI, CN
[72] SEBIRE, BENOIST, JP
[73] NOKIA TECHNOLOGIES OY, FI
[85] 2020-05-14
[86] 2017-11-15 (PCT/CN2017/111143)
[87] (WO2019/095151)

[11] **3,085,192**
[13] C
[51] **Int.Cl. C02F 3/34 (2006.01) B09C 1/08 (2006.01) C02F 3/00 (2006.01) C09K 3/32 (2006.01) C09K 17/00 (2006.01) C12N 1/20 (2006.01)**
[25] EN
[54] **A SOIL-BASED FLOW-THROUGH RHIZOSPHERE SYSTEM FOR TREATMENT OF CONTAMINATED WATER AND SOIL**
[54] **SYSTEME DE RHIZOSPHERE A ECOULEMENT CONTINU A BASE DE TERRE POUR LE TRAITEMENT D'EAU ET DE SOL CONTAMINES**
[72] GILL, LUCIAN STEPHEN, GB
[73] REED SCIENTIFIC CO. LTD., CA
[85] 2020-06-09
[86] 2018-12-06 (PCT/CA2018/051563)
[87] (WO2019/134028)
[30] US (62/612,929) 2018-01-02

[11] **3,086,154**
[13] C
[51] **Int.Cl. C23C 16/517 (2006.01) B82Y 30/00 (2011.01) C23C 16/04 (2006.01) C23C 16/30 (2006.01) H05H 1/24 (2006.01)**
[25] EN
[54] **PULSE-MANAGED PLASMA METHOD FOR COATING ON INTERNAL SURFACES OF WORKPIECES**
[54] **PROCEDE PLASMA GERE PAR IMPULSIONS POUR LE REVETEMENT DES SURFACES INTERNES DE PIECES**
[72] MARTINU, LUDVIK, CA
[72] KILICASLAN, AMAURY, CA
[72] SAPIEHA, JOLANTA, CA
[72] ZABEIDA, OLEG, CA
[72] LAROSE, JOEL, CA
[72] BOUSSER, ETIENNE, CA
[72] DALGAARD, ELVI, CA
[73] PRATT & WHITNEY CANADA CORP., CA
[86] (3086154)
[87] (3086154)
[22] 2020-07-08
[30] US (62/871,388) 2019-07-08
[30] US (62/977,985) 2020-02-18

[11] **3,087,173**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61M 1/36 (2006.01) B01D 61/32 (2006.01)**
[25] EN
[54] **CLOSED LOOP DIALYSIS TREATMENT USING ADAPTIVE ULTRAFILTRATION RATES**
[54] **TRAITEMENT DE DIALYSE EN BOUCLE FERMEE UTILISANT DES DEBITS D'ULTRAFILTRATION ADAPTATIFS**
[72] BARRETT, LOUIS LEEGRANDE, US
[72] CHHI, KEN, US
[72] YUDS, DAVID, US
[72] MERICS, TOM, US
[72] DOWD, JOAN, US
[73] FRESENIUS MEDICAL CARE HOLDINGS, INC., US
[85] 2020-06-26
[86] 2018-12-21 (PCT/US2018/067049)
[87] (WO2019/133472)
[30] US (62/612,037) 2017-12-29
[30] US (15/927,769) 2018-03-21

[11] **3,088,621**
[13] C
[51] **Int.Cl. A61B 5/145 (2006.01) A61B 5/1459 (2006.01) A61B 5/1473 (2006.01)**
[25] EN
[54] **PHYSIOLOGICAL SIGNAL MONITORING DEVICE**
[54] **DISPOSITIF DE SURVEILLANCE DE SIGNAL PHYSIOLOGIQUE**
[72] HUANG, CHUN-MU, TW
[72] CHEN, CHIEH-HSING, TW
[73] BIONIME CORPORATION, CN
[86] (3088621)
[87] (3088621)
[22] 2020-07-31
[30] TW (109100852) 2020-01-10
[30] US (62/882,140) 2019-08-02
[30] TW (109100968) 2020-01-10
[30] TW (109109242) 2020-03-19

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[11] **3,089,387**
[13] C
[51] **Int.Cl. E21B 33/00 (2006.01) E21B 33/12 (2006.01) E21B 34/00 (2006.01) E21B 34/06 (2006.01)**
[25] EN
[54] **GAS CAPABLE FRANGIBLE DISC BARRIER VALVE**
[54] **VANNE BARRIERE A DISQUE DE RUPTURE APPROPRIEE POUR UNE UTILISATION AVEC DES GAZ**
[72] FRAZIER, W. LYNN, US
[72] BAILEY, STEVEN, US
[72] ABT, RONALD, US
[73] NINE DOWNHOLE TECHNOLOGIES, LLC, US
[85] 2020-07-22
[86] 2019-01-28 (PCT/US2019/015461)
[87] (WO2019/148128)
[30] US (62/622,678) 2018-01-26

---

[11] **3,089,881**
[13] C
[51] **Int.Cl. G01N 33/48 (2006.01) C12Q 1/00 (2006.01) G01N 33/50 (2006.01) G01N 33/53 (2006.01) G16B 25/10 (2019.01)**
[25] EN
[54] **PERSONALIZED MEDICINE APPROACH FOR TREATING COGNITIVE LOSS**
[54] **APPROCHE MEDICALE PERSONNALISEE POUR LE TRAITEMENT D'UNE PERTE COGNITIVE**
[72] O'BRYANT, SID E., US
[73] UNIVERSITY OF NORTH TEXAS HEALTH SCIENCE CENTER AT FORT WORTH, US
[86] (3089881)
[87] (3089881)
[22] 2014-11-26
[62] 2,930,874
[30] US (61/908,812) 2013-11-26

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[11] **3,090,473**
[13] C
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/0735 (2010.01) C12N 1/00 (2006.01) C12N 5/10 (2006.01) C12Q 1/02 (2006.01)**
[25] EN
[54] **METHOD FOR INDUCING DIFFERENTIATION OF PLURIPOTENT STEM CELLS INTO INTESTINAL EPITHELIAL CELLS**
[54] **METHODE D'INDUCTION D'UNE DIFFERENCIATION DE CELLULES SOUCHES PLURIPOTENTES EN CELLULES EPITHELIALES INTESTINALES**
[72] MATSUNAGA, TAMIHIDE, JP
[72] IWAO, TAKAHIRO, JP
[72] KABEYA, TOMOKI, JP
[72] MIMA, SHINJI, JP
[72] MIYASHITA, TOSHIHIDE, JP
[73] PUBLIC UNIVERSITY CORPORATION NAGOYA CITY UNIVERSITY, JP
[73] FUJIFILM CORPORATION, JP
[85] 2020-08-05
[86] 2019-02-08 (PCT/JP2019/004553)
[87] (WO2019/156200)
[30] JP (2018-021545) 2018-02-09

---

[11] **3,091,698**
[13] C
[51] **Int.Cl. G01N 31/22 (2006.01) G01N 21/25 (2006.01)**
[25] EN
[54] **METHOD AND DEVICE FOR THE DETERMINATION OF FILM FORMING AMINES IN A LIQUID**
[54] **PROCEDE ET DISPOSITIF POUR LA DETERMINATION D'AMINES FILMOGENES DANS UN LIQUIDE**
[72] RAMMINGER, UTE, DE
[72] NICKEL, ULRICH, DE
[72] FANDRICH, JORG, DE
[73] FRAMATOME GMBH, DE
[85] 2020-08-19
[86] 2018-04-03 (PCT/EP2018/058438)
[87] (WO2019/192673)

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[11] **3,093,094**
[13] C
[51] **Int.Cl. F23J 13/00 (2006.01) F23J 13/08 (2006.01) F23L 17/00 (2006.01) F23L 17/02 (2006.01) F23L 17/04 (2006.01) F23L 17/12 (2006.01)**
[25] EN
[54] **FLUE CAP COVER**
[54] **CACHE POUR LA VENTOUSE DE SORTIE DES FUMEES**
[72] KING, JACK F. JR., US
[73] ROOF GOOSE VENT LLC, US
[85] 2020-09-03
[86] 2019-03-22 (PCT/US2019/023679)
[87] (WO2019/190928)
[30] US (62/648,678) 2018-03-27

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[11] **3,096,950**
[13] C
[51] **Int.Cl. H01Q 15/14 (2006.01) G01S 13/02 (2006.01) H01C 7/02 (2006.01) H01C 10/06 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MEASUREMENT OF MATERIAL PROPERTY USING VARIABLE REFLECTOR**
[54] **SYSTEME ET PROCEDE POUR LA MESURE D'UNE PROPRIETE DE MATIERE UTILISANT UN REFLECTEUR VARIABLE**
[72] ANNAN, PETER, CA
[72] REDMAN, DAVID, CA
[73] SENSORS & SOFTWARE INC., CA
[86] (3096950)
[87] (3096950)
[22] 2014-06-27
[62] 2,914,187
[30] US (61/840,709) 2013-06-28
[30] US (61/840,742) 2013-06-28

[11] **3,097,315**
[13] C
[51] **Int.Cl. C08K 3/00 (2018.01) C08L 23/08 (2006.01)**
[25] EN
[54] **BIO-BASED ELASTOMERIC EVA COMPOSITIONS AND ARTICLES AND METHODS THEREOF**
[54] **COMPOSITIONS ET ARTICLES EN EVA ELASTOMERE D'ORIGINE BIOLOGIQUE ET PROCEDES ASSOCIES**
[72] DELEVATI, GIANCARLOS, BR
[72] SOTO OVIEDO, MAURO ALFREDO, BR
[72] MUNHOZ ANDERLE, FERNANDA, BR
[72] RENCK, OMAR WANDIR, BR
[72] ESTEVES VIVEIRO, JOSE AUGUSTO, BR
[73] BRASKEM S.A., BR
[85] 2020-10-15
[86] 2019-04-12 (PCT/IB2019/020007)
[87] (WO2019/202406)
[30] US (62/658,283) 2018-04-16

[11] **3,099,520**
[13] C
[51] **Int.Cl. A61N 1/36 (2006.01) A61N 1/372 (2006.01)**
[25] EN
[54] **ADJUSTMENT OF ANALGESIC STIMULATION PARAMETERS BASED ON TRUST DYNAMIC MEASUREMENTS**
[54] **AJUSTEMENT DE PARAMETRES DE STIMULATION ANALGESIQUE SUR LA BASE DE MESURES DYNAMIQUES DE CONFIANCE**
[72] KOZLOSKI, JAMES R., US
[72] KALIA, ANUP, US
[72] ROGERS, JEFFREY, US
[72] BERGER, SARA E., US
[73] BOSTON SCIENTIFIC NEUROMODULATION CORPORATION, US
[85] 2020-11-05
[86] 2019-05-20 (PCT/US2019/033142)
[87] (WO2019/226557)
[30] US (62/675,000) 2018-05-22

[11] **3,099,724**
[13] C
[51] **Int.Cl. C05G 3/00 (2020.01) C05D 11/00 (2006.01) C05G 5/00 (2020.01)**
[25] EN
[54] **COMPOSITIONS, SYSTEMS AND METHODS FOR DELIVERY OF AN ELEMENT IN RESPONSE TO BIOLOGICAL DEMAND**
[54] **COMPOSITIONS, SYSTEMES ET PROCEDES D'ADMINISTRATION D'UN ELEMENT EN REPONSE A UNE DEMANDE BIOLOGIQUE**
[72] BRANDA, NEIL ROBIN, CA
[72] NOURMOHAMMADIAN, FARAHNAZ, CA
[72] GROSS, PETER, CA
[73] LUCENT BIOSCIENCES, INC., CA
[85] 2020-11-09
[86] 2019-05-17 (PCT/CA2019/050684)
[87] (WO2019/218089)
[30] US (62/673,691) 2018-05-18
[30] US (62/771,801) 2018-11-27

[11] **3,100,600**
[13] C
[51] **Int.Cl. B65D 35/28 (2006.01) B05C 17/01 (2006.01)**
[25] EN
[54] **DEVICES AND SYSTEMS FOR DISPENSING MATERIAL**
[54] **DISPOSITIFS ET SYSTEMES POUR LA DISTRIBUTION DE MATERIAU**
[72] TOLLEFSEN, TROND ERIK, GB
[72] BOUDREAUX, RYAN JOSEPH, US
[72] WAGNER, NICHOLAS JOHN, US
[72] WAGNER, MITCHELL JAMES, US
[72] MAHONEY, RYAN DAVID, US
[72] GAMPFER, KEVIN JAY, US
[72] LACY, JEREMY THOMAS, US
[73] THE GORILLA GLUE COMPANY LLC, US
[86] (3100600)
[87] (3100600)
[22] 2020-11-25
[30] US (62/941,316) 2019-11-27

[11] **3,101,078**
[13] C
[51] **Int.Cl. A24B 15/16 (2020.01) A24B 15/12 (2006.01) A24B 15/28 (2006.01) A24D 1/00 (2020.01) A24F 47/00 (2020.01)**
[25] EN
[54] **FLAVOUR PROFILES OF AEROSOLISABLE MATERIALS**
[54] **PROFILS DE PARFUM POUR DES MATERIAUX VAPORISABLES**
[72] REES, KELLY, GB
[72] TODD, RICHARD, GB
[73] NICOVENTURES TRADING LIMITED, GB
[85] 2020-11-20
[86] 2019-05-24 (PCT/EP2019/063501)
[87] (WO2019/224366)
[30] GB (1808526.6) 2018-05-24

[11] **3,101,714**
[13] C
[51] **Int.Cl. H04N 7/15 (2006.01) H04N 21/2347 (2011.01) H04N 21/81 (2011.01) G06F 16/70 (2019.01) G10L 15/26 (2006.01) H04L 12/16 (2006.01)**
[25] EN
[54] **SECURE, IMMUTABLE AND VERIFIABLE INTERVIEW RECORDS**
[54] **DOSSIERS D'ENTREVUE SECURITAIRES, IMMUABLES ET VERIFIABLES**
[72] BEARDSWORTH, DAVID, GB
[72] STONE, JEDDIAH, GB
[72] EMPSON, JONATHAN, GB
[73] ISSURED LIMITED, GB
[86] (3101714)
[87] (3101714)
[22] 2020-12-04
[30] GB (1918314.4) 2019-12-12
[30] EP (20207550.3) 2020-11-13

[11] **3,101,956**
[13] C
[51] **Int.Cl. B60W 60/00 (2020.01) B60W 50/00 (2006.01) G08G 1/123 (2006.01)**
[25] EN
[54] **VEHICLE CONTROL AND TRIP PLANNING SYSTEM**
[54] **COMMANDE DE VEHICULE ET SYSTEME DE PLANIFICATION DES DEPLACEMENTS**
[72] GHOSH, DIPANKAR, US
[72] CORRY, JAMES GLEN, US
[72] SCHOONMAKER, WILLIAM CHERRICK, US
[72] KRAELING, MARK BRADSHAW, US
[73] WESTINGHOUSE AIR BRAKE TECHNOLOGIES CORPORATION, US
[86] (3101956)
[87] (3101956)
[22] 2020-12-08
[30] US (16/719,165) 2019-12-18

[11] **3,103,006**
[13] C
[51] **Int.Cl. B62D 55/07 (2006.01) B60R 7/00 (2006.01) B60R 9/00 (2006.01)**
[25] EN
[54] **SNOWMOBILE STORAGE COMPARTMENT**
[54] **COMPARTIMENT DE RANGEMENT POUR MOTONEIGE**
[72] EDWARDS, BENJAMIN T., US
[72] HEDLUND, MICHAEL A., US
[72] BACHLEITNER, RONALD W., US
[72] FISHER, CAMERON D., US
[72] ROGALA, JAMES E., US
[73] POLARIS INDUSTRIES INC., US
[86] (3103006)
[87] (3103006)
[22] 2020-12-16
[30] US (16/723,754) 2019-12-20

[11] **3,105,485**
[13] C
[51] **Int.Cl. C07D 487/04 (2006.01) A61K 31/5025 (2006.01) A61P 17/06 (2006.01)**
[25] EN
[54] **PYRROLO[1,2-B]PYRIDAZINE DERIVATIVES**
[54] **DERIVES DE PYRROLO[1,2-B]PYRIDAZINE**
[72] AMMANN, STEPHEN, US
[72] BACON, ELIZABETH M., US
[72] BRIZGYS, GEDIMINAS, US
[72] CHIN, ELBERT, US
[72] CHOU, CHIENHUNG, US
[72] COTTELL, JEROMY J., US
[72] NDUKWE, MARILYN, US
[72] TAYLOR, JAMES G., US
[72] WRIGHT, NATHAN E., US
[72] YANG, ZHENG-YU, US
[72] ZIPFEL, SHEILA M., US
[73] GILEAD SCIENCES, INC., US
[85] 2020-12-30
[86] 2019-07-11 (PCT/US2019/041382)
[87] (WO2020/014468)
[30] US (62/697,533) 2018-07-13

[11] **3,106,324**
[13] C
[51] **Int.Cl. C12N 5/10 (2006.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/52 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 14/715 (2006.01) C07K 14/735 (2006.01) C12N 15/09 (2006.01) C12N 15/12 (2006.01) C12N 15/19 (2006.01) C12N 15/62 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **A QUADRICISTRONIC SYSTEM COMPRISING A HOMING RECEPTOR OR A CYTOKINE, AND CHIMERIC ANTIGEN RECEPTOR FOR STABLE GENETIC MODIFICATION OF CELLULAR IMMUNOTHERAPIES**
[54] **SYSTEME QUADRICISTRONIQUE COMPRENANT UN RECEPTEUR DE HOMING OU UNE CYTOKINE, ET UN RECEPTEUR D'ANTIGENE CHIMERIQUE POUR LA MODIFICATION GENETIQUE STABLE D'IMMUNOTHERAPIES CELLULAIRES**
[72] KLINGEMANN, HANS G., US
[72] BOISSEL, LAURENT H., US
[72] LEE, JOHN H., US
[72] SCHUMER, NATHAN T., US
[73] IMMUNITYBIO, INC., US
[85] 2021-01-12
[86] 2019-08-01 (PCT/US2019/044655)
[87] (WO2020/028656)
[30] US (62/713,264) 2018-08-01
[30] US (62/713,278) 2018-08-01
[30] US (62/713,310) 2018-08-01
[30] US (62/713,323) 2018-08-01

[11] **3,106,407**
[13] C
[51] **Int.Cl. H04L 41/5041 (2022.01) H04L 45/02 (2022.01) H04L 45/586 (2022.01) H04L 45/64 (2022.01) H04L 67/10 (2022.01) H04L 69/329 (2022.01)**
[25] EN
[54] **MULTI-CLOUD CONNECTIVITY USING SRV6 AND BGP**
[54] **CONNECTIVITE MULTI-NUAGES UTILISANT SRV6 ET BGP**
[72] TOLLET, JEROME, FR
[72] FIOCCO, ALAIN, FR
[72] SURCOUF, ANDRE JEAN-MARIE, FR
[72] GARVIA, PABLO CAMARILLO, ES
[72] FILSFILS, CLARENCE, BE
[73] CISCO TECHNOLOGY, INC., US
[85] 2021-01-13
[86] 2019-07-17 (PCT/US2019/042131)
[87] (WO2020/018623)
[30] US (16/037,765) 2018-07-17

[11] **3,106,672**
[13] C
[51] **Int.Cl. H01F 1/00 (2006.01) H01F 1/36 (2006.01)**
[25] EN
[54] **MAGNETIC PARTICLES**
[54] **PARTICULES MAGNETIQUES**
[72] CORPSTEIN, JEFF, US
[72] FARTHING, EVAN, US
[72] KEEN, THOMAS, US
[72] ZHAO, JIANLI, US
[72] PATEL, ASMITA, US
[72] LIU, YUANDAN, US
[72] HOANG, CUONG, US
[72] WELCH, EMMET, US
[73] BECKMAN COULTER, INC., US
[85] 2021-01-15
[86] 2019-07-19 (PCT/US2019/042628)
[87] (WO2020/018919)
[30] US (62/700,658) 2018-07-19

[11] **3,106,769**
[13] C
[51] **Int.Cl. A61G 5/04 (2013.01) A61G 5/10 (2006.01) A61G 5/12 (2006.01) A61G 5/14 (2006.01)**
[25] EN
[54] **MOBILITY DEVICE**
[54] **DISPOSITIF DE MOBILITE**
[72] JAHKEL, JONAS, SE
[73] PERMOBIL AB, SE
[85] 2021-01-18
[86] 2019-07-18 (PCT/EP2019/069375)
[87] (WO2020/016359)
[30] EP (18184496.0) 2018-07-19

[11] **3,108,089**
[13] C
[51] **Int.Cl. G06F 9/30 (2018.01) G06N 3/084 (2023.01) G06N 3/04 (2023.01) G06N 3/063 (2023.01)**
[25] EN
[54] **TASK ACTIVATING FOR ACCELERATED DEEP LEARNING**
[54] **ACTIVATION DE TACHE POUR UN APPRENTISSAGE PROFOND ACCELERE**
[72] AREKAPUDI, SRIKANTH, US
[72] LAUTERBACH, GARY R., US
[72] LIE, SEAN, US
[72] MORRISON, MICHAEL, US
[72] JAMES, MICHAEL EDWIN, US
[73] CEREBRAS SYSTEMS INC., US
[86] (3108089)
[87] (3108089)
[22] 2018-04-17
[62] 3,060,356
[30] US (62/486,372) 2017-04-17
[30] US (62/517,949) 2017-06-11
[30] US (62/520,433) 2017-06-15
[30] US (62/522,081) 2017-06-19
[30] US (62/522,065) 2017-06-19
[30] US (62/542,657) 2017-08-08
[30] US (62/542,645) 2017-08-08
[30] US (62/580,207) 2017-11-01
[30] US (62/628,773) 2018-02-09
[30] US (62/628,784) 2018-02-09
[30] US (62/652,933) 2018-04-05
[30] US (62/655,210) 2018-04-09
[30] US (62/655,826) 2018-04-11

[11] **3,109,782**
[13] C
[51] **Int.Cl. B62D 35/02 (2006.01) B62D 37/00 (2006.01)**
[25] EN
[54] **RAIN GUTTER FOR REDUCING VEHICLE DRAG**
[54] **GOUTTIERE A PLUIE POUR REDUIRE LA TRAINEE D'UN VEHICULE**
[72] HENDERSON, MICHEAL LORENZO, US
[72] WULFF, STEPHEN ALFRED, US
[73] TRANSTEX LLC, US
[86] (3109782)
[87] (3109782)
[22] 2011-05-04
[62] 3,006,166
[30] US (12/775,095) 2010-05-06

[11] **3,109,980**
[13] C
[51] **Int.Cl. B23K 9/10 (2006.01) B23K 9/095 (2006.01) B23K 9/173 (2006.01) B23K 9/32 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND APPARATUS FOR PRE-REGULATOR CONTROL IN WELDING-TYPE POWER SUPPLIES**
[54] **SYSTEMES, METHODES ET APPAREIL POUR LE CONTROLE PREREGULATEUR DANS LES ALIMENTATIONS DE TYPE SOUDAGE**
[72] VOGEL, BERNARD J., US
[72] ANDERS, ADAM E., US
[73] ILLINOIS TOOL WORKS INC., US
[85] 2021-02-17
[86] 2019-09-06 (PCT/US2019/049977)
[87] (WO2020/068397)
[30] US (16/143,893) 2018-09-27

[11] **3,110,670**
[13] C
[51] **Int.Cl. A61L 27/34 (2006.01) A61L 27/50 (2006.01) A61F 2/07 (2013.01)**
[25] EN
[54] **TEXTILE PRODUCTS HAVING A SEALANT OR COATING AND METHOD OF MANUFACTURE**
[54] **PRODUITS TEXTILES AYANT UN AGENT D'ETANCHEITE OU UN REVETEMENT ET PROCEDE DE FABRICATION**
[72] STEVENSON, DAVID GRANVILLE, GB
[72] ASHTON, TIMOTHY RAWDEN, GB
[73] HOTHOUSE MEDICAL LIMITED, GB
[86] (3110670)
[87] (3110670)
[22] 2018-10-31
[62] 3,081,180
[30] GB (1717885.6) 2017-10-31

[11] **3,113,891**
[13] C
[51] **Int.Cl. A47L 15/24 (2006.01)**
[25] EN
[54] **CLEANING DEVICE AND METHOD FOR CLEANING ARTICLES TO BE CLEANED**
[54] **DISPOSITIF DE NETTOYAGE ET PROCEDE DE NETTOYAGE D'ARTICLES A NETTOYER**
[72] GAUS, BRUNO, DE
[73] MEIKO MASCHINENBAU GMBH & CO. KG, DE
[85] 2021-03-23
[86] 2019-10-04 (PCT/EP2019/076865)
[87] (WO2020/070264)
[30] DE (10 2018 217 052.5) 2018-10-05

[11] **3,114,516**
[13] C
[51] **Int.Cl. A61B 90/30 (2016.01) A42B 3/12 (2006.01) A42B 3/14 (2006.01) A42B 3/28 (2006.01) F21V 21/084 (2006.01) F21L 4/04 (2006.01)**
[25] EN
[54] **HEAD WEARABLE DEVICES AND METHODS**
[54] **DISPOSITIFS ET PROCEDES POUVANT ETRE PORTES SUR LA TETE**
[72] AFRICA, THOMAS JOSEPH, US
[72] ANGELL, LAUREN, US
[73] INTEGRA LIFESCIENCES CORPORATION, US
[85] 2021-03-26
[86] 2018-12-21 (PCT/US2018/067231)
[87] (WO2020/072088)
[30] US (62/741,385) 2018-10-04
[30] US (62/741,636) 2018-10-05

[11] **3,114,624**
[13] C
[51] **Int.Cl. C11D 1/38 (2006.01) C11D 3/00 (2006.01) C11D 3/22 (2006.01) C11D 17/06 (2006.01)**
[25] EN
[54] **PARTICULATE LAUNDRY SOFTENING WASH ADDITIVE**
[54] **ADDITIF DE LAVAGE ADOUCISSANT PARTICULAIRE POUR LE LINGE**
[72] CORONA, ALESSANDRO III, US
[72] FONTAINE, MICHAEL PAUL, US
[72] JOHNSON, LENAE VIRGINIA, US
[72] PANANDIKER, RAJAN KESHAV, US
[72] SCHMITT, CHARLES L., US
[72] ZERHUSEN, JADEN SCOTT, US
[73] THE PROCTER & GAMBLE COMPANY, US
[85] 2021-03-26
[86] 2019-12-02 (PCT/US2019/063940)
[87] (WO2020/117643)
[30] EP (18210004.0) 2018-12-04

[11] **3,116,989**
[13] C
[51] **Int.Cl. C09C 1/48 (2006.01) C09C 1/50 (2006.01) C09C 1/56 (2006.01)**
[25] EN
[54] **PARTICLE SYSTEMS AND METHODS**
[54] **SYSTEMES PARTICULAIRES ET PROCEDES**
[72] HARDMAN, NED J., US
[72] ALLISON, BRIAN R., US
[72] SPIZUOCO, ANTHONY P., US
[72] MESROBIAN, CHRISTOPHER E., US
[72] HOERMANN, ALEXANDER F., US
[72] LAIDLAW, DYLAN, US
[72] HAMPTON, AARON S., US
[73] MONOLITH MATERIALS, INC., US
[85] 2021-04-19
[86] 2018-10-24 (PCT/US2018/057401)
[87] (WO2019/084200)
[30] US (62/576,486) 2017-10-24

[11] **3,117,300**
[13] C
[51] **Int.Cl. G05D 1/247 (2024.01) A47L 9/28 (2006.01) A47L 11/24 (2006.01) A47L 11/40 (2006.01)**
[25] EN
[54] **DOCKING STATION FOR ROBOTIC CLEANER**
[54] **STATION D'ACCUEIL POUR ROBOT NETTOYEUR**
[72] HOFFMAN, TREVOR, US
[72] BROWN, ANDRE D., US
[72] HUFFMAN, ANDROMEDA, US
[73] SHARKNINJA OPERATING LLC, US
[85] 2021-04-21
[86] 2019-10-22 (PCT/US2019/057349)
[87] (WO2020/086526)
[30] US (62/748,807) 2018-10-22
[30] US (62/782,651) 2018-12-20

[11] **3,118,705**
[13] C
[51] **Int.Cl. H01F 7/06 (2006.01) H01F 7/08 (2006.01)**
[25] FR
[54] **BI-STABLE ELECTROMAGNETIC ACTUATOR**
[54] **ACTIONNEUR ELECTROMAGNETIQUE BISTABLE**
[72] FRANCOEUR, BRUNO, CA
[72] COUTURE, PIERRE, CA
[73] HYDRO-QUEBEC, CA
[85] 2021-05-03
[86] 2018-11-05 (PCT/CA2018/051391)
[87] (WO2020/093132)

[11] **3,119,348**
[13] C
[51] **Int.Cl. C09C 1/44 (2006.01) H01M 4/583 (2010.01) C01B 32/30 (2017.01) C01B 32/312 (2017.01) B01J 20/02 (2006.01) B01J 20/30 (2006.01) H01G 4/008 (2006.01)**
[25] EN
[54] **ACTIVATED CARBON ELECTRODE MATERIAL**
[54] **MATERIAU D'ELECTRODE EN CHARBON ACTIF**
[72] GUPTA, RAM, US
[72] KAHOL, PAWAN, US
[73] PITTSBURG STATE UNIVERSITY, US
[73] MISSOURI SOYBEAN MERCHANDISING COUNCIL, US
[85] 2021-05-10
[86] 2019-11-12 (PCT/US2019/060833)
[87] (WO2020/102136)
[30] US (62/760,730) 2018-11-13

[11] **3,119,665**
[13] C
[51] **Int.Cl. E01C 19/20 (2006.01) A01C 7/08 (2006.01) A01C 15/00 (2006.01)**
[25] EN
[54] **FLOW DIVIDER FOR SPINNER SPREADER**
[54] **DIVISEUR DE DEBIT POUR EPANDEUR CENTRIFUGE**
[72] GRAY, GEOF J., CA
[72] FIELDS, JOSHUA SCOTT, US
[72] OWENBY, STEVEN RAY, US
[72] HAGLER, RICHARD, US
[72] MCEVER, RUSSELL, US
[72] HOBSON, BRIAN, US
[73] SALFORD GROUP INC., CA
[85] 2021-05-12
[86] 2019-07-22 (PCT/CA2019/051007)
[87] (WO2020/102878)
[30] US (62/770,792) 2018-11-22

[11] **3,122,134**
[13] C
[51] **Int.Cl. A24F 40/50 (2020.01) G06F 21/62 (2013.01) A24F 40/10 (2020.01) G06K 19/07 (2006.01)**
[25] EN
[54] **ELECTRONIC CIGARETTE ENCRYPTED BY WIRELESS ELECTRONIC TAG AND ENCRYPTION METHOD**
[54] **CIGARETTE ELECTRONIQUE CHIFFREE PAR ETIQUETTE ELECTRONIQUE SANS FIL, ET PROCEDE DE CHIFFREMENT ASSOCIE**
[72] LIN, GUANGRONG, CN
[72] ZHENG, XIANBIN, CN
[72] ZHANG, XIYONG, CN
[73] HUIZHOU HAPPY VAPING TECHNOLOGY LIMITED, CN
[85] 2021-06-04
[86] 2019-12-05 (PCT/CN2019/123173)
[87] (WO2020/140677)
[30] CN (201910009545.1) 2019-01-04

[11] **3,123,215**
[13] C
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) A61K 38/02 (2006.01) A61K 39/395 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **INHIBITORS OF SARM1 IN COMBINATION WITH NEUROPROTECTIVE AGENTS**
[54] **INHIBITEURS DE SARM1 EN COMBINAISON AVEC DES AGENTS NEUROPROTECTEURS**
[72] BOSANAC, TODD, US
[72] DEVRAJ, RAJESH, US
[72] ENGBER, THOMAS, US
[72] HUGHES, ROBERT OWEN, US
[72] KRAUSS, RAUL EDUARDO, US
[73] DISARM THERAPEUTICS, INC., US
[85] 2021-06-11
[86] 2019-12-18 (PCT/US2019/067137)
[87] (WO2020/132045)
[30] US (62/782,239) 2018-12-19

[11] **3,126,038**
[13] C
[51] **Int.Cl. A61M 5/42 (2006.01)**
[25] EN
[54] **INTRAVENOUS THERAPY SYSTEM FOR BLOOD VESSEL DETECTION**
[54] **SYSTEME DE THERAPIE INTRAVEINEUSE POUR LA DETECTION DE VAISSEAUX SANGUINS**
[72] MA, YIPING, US
[72] WILLYBIRO, KATHRYN, US
[73] BECTON, DICKINSON AND COMPANY, US
[85] 2021-07-07
[86] 2020-01-16 (PCT/US2020/013905)
[87] (WO2020/150489)
[30] US (62/794,442) 2019-01-18
[30] US (16/742,035) 2020-01-14

[11] **3,128,116**
[13] C
[51] **Int.Cl. B42D 25/309 (2014.01) B42D 25/342 (2014.01) B42D 25/405 (2014.01)**
[25] EN
[54] **IDENTIFICATION DOCUMENT HAVING BIOMETRIC IMAGE INFORMATION**
[54] **DOCUMENT D'IDENTIFICATION COMPRENANT UNE INFORMATION D'IMAGE BIOMETRIQUE**
[72] KOHL, KLAUS, DE
[72] ENDRES, GUNTER, DE
[73] VERIDOS GMBH, DE
[85] 2021-07-28
[86] 2020-01-31 (PCT/EP2020/025044)
[87] (WO2020/156759)
[30] DE (10 2019 000 739.5) 2019-02-01

[11] **3,128,522**
[13] C
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 9/08 (2006.01) A61K 47/10 (2017.01) A61K 47/14 (2017.01)**
[25] EN
[54] **PRESERVED FORMULATIONS**
[54] **FORMULATIONS CONSERVEES**
[72] MISHRA, DINESH SHYAMDEO, US
[72] QIAN, KEN KANGYI, US
[73] ELI LILLY AND COMPANY, US
[85] 2021-07-30
[86] 2020-03-11 (PCT/US2020/022111)
[87] (WO2020/190591)
[30] US (62/819,096) 2019-03-15

[11] **3,128,592**
[13] C
[51] **Int.Cl. H04W 24/00 (2009.01) H04W 76/15 (2018.01)**
[25] EN
[54] **COMMUNICATION SYSTEM, CONTROL DEVICE, COMMUNICATION TERMINAL, COMMUNICATION DEVICE, AND COMMUNICATION METHOD**
[54] **SYSTEME DE COMMUNICATION, DISPOSITIF DE COMMANDE, TERMINAL DE COMMUNICATION, DISPOSITIF DE COMMUNICATION ET PROCEDE DE COMMUNICATION**
[72] TAMURA, TOSHIYUKI, JP
[73] NEC CORPORATION, JP
[86] (3128592)
[87] (3128592)
[22] 2017-05-02
[62] 3,025,677
[30] JP (2016-105254) 2016-05-26

[11] **3,130,384**
[13] C
[51] **Int.Cl. E21B 44/00 (2006.01) E21B 23/06 (2006.01) E21B 43/02 (2006.01) E21B 43/08 (2006.01) E21B 47/00 (2012.01)**
[25] EN
[54] **SYSTEM, METHOD, AND MEDIUM FOR OPTIMIZING SYSTEM DESIGN FOR EXTRACTION OF HYDROCARBON MATERIAL**
[54] **SYSTEME, METHODE ET SUPPORT POUR OPTIMISER LA CONCEPTION DE SYSTEME POURL'EXTRACTION DE MATIERES D'HYDROCARBURES**
[72] AGHABARATI, HOSSEIN, CA
[73] SUNCOR ENERGY INC., CA
[86] (3130384)
[87] (3130384)
[22] 2021-09-10

[11] **3,130,939**
[13] C
[51] **Int.Cl. C22C 21/06 (2006.01)**
[25] EN
[54] **ALUMINIUM-BASED ALLOY**
[54] **ALLIAGE A BASE D'ALUMINIUM**
[72] MANN, VIKTOR KHRIST'YANOVICH, RU
[72] ALABIN, ALEKSANDR NIKOLAEVICH, RU
[72] KHROMOV, ALEKSANDR PETROVICH, RU
[72] VAL'CHUK, SERGEY VIKTOROVICH, RU
[72] KROKHIN, ALEKSANDR YUR'EVICH, RU
[72] FOKIN, DMITRIY OLEGOVICH, RU
[72] VAKHROMOV, ROMAN OLEGOVICH, RU
[72] YUR'EV, PAVEL OLEGOVICH, RU
[73] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU
[85] 2021-08-19
[86] 2019-12-27 (PCT/RU2019/001038)
[87] (WO2021/133200)

[11] **3,132,448**
[13] C
[51] **Int.Cl. H02M 7/00 (2006.01) H02M 7/525 (2006.01) H02M 7/529 (2006.01) H02M 7/5387 (2007.01) H02M 7/539 (2006.01) H02M 7/758 (2006.01)**
[25] EN
[54] **MEDIUM VOLTAGE VARIABLE FREQUENCY DRIVE WITH ARTIFICIAL INTELLIGENCE**
[54] **ENTRAINEMENT A FREQUENCE VARIABLE MOYENNE TENSION AVEC INTELLIGENCE ARTIFICIELLE**
[72] IONESCU, BOGDAN CRISTIAN, US
[73] INNOMOTICS GMBH, DE
[85] 2021-09-02
[86] 2019-03-04 (PCT/US2019/020506)
[87] (WO2020/180293)

[11] **3,132,962**
[13] C
[51] **Int.Cl. G07F 19/00 (2006.01) G07F 7/08 (2006.01)**
[25] EN
[54] **CASINO CASH SYSTEM, APPARATUS AND METHOD UTILIZING INTEGRATED CIRCUIT CARDS**
[54] **SYSTEME, APPAREIL ET METHODE D'ARGENT EN CASINO UTILISANT DES CARTES A CIRCUITS INTEGRES**
[72] RICHARDS, TIMOTHY, US
[72] BALTZELL, DALE, US
[72] SULLIVAN, BRIAN T., US
[73] EVERI PAYMENTS INC., US
[86] (3132962)
[87] (3132962)
[22] 2016-09-22
[62] 3,025,541
[30] US (62/233,089) 2015-09-25
[30] US (15/047,198) 2016-02-18

[11] **3,133,117**
[13] C
[51] **Int.Cl. A61K 9/51 (2006.01) A61K 48/00 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **A DELIVERY SYSTEM COMPRISING SILICON NANOPARTICLES**
[54] **SYSTEME DE DISTRIBUTION COMPRENANT DES NANOPARTICULES DE SILICIUM**
[72] SAFFIE-SIEBERT, ROGHIEH SUZANNE, GB
[72] BARAN-RACHWALSKA, PAULINA MALGORZATA, GB
[72] SUTERA, FLAVIA MARIA, GB
[72] TORABI-POUR, NASROLLAH, GB
[73] SISAF LIMITED, GB
[85] 2021-09-10
[86] 2020-03-30 (PCT/GB2020/050854)
[87] (WO2020/193999)
[30] GB (1904337.1) 2019-03-28

[11] **3,133,931**
[13] C
[51] **Int.Cl. H02M 1/00 (2007.10) F03D 80/00 (2016.01) H02J 3/38 (2006.01) H02M 1/08 (2006.01) H02M 7/44 (2006.01) H02M 7/539 (2006.01)**
[25] EN
[54] **TOLERANCE-BAND FILTER FOR A FREQUENCY CHANGER**
[54] **FILTRE DE BANDE DE TOLERANCE POUR UN CONVERTISSEUR DE FREQUENCE**
[72] HEYEN, CHRISTIAN, DE
[72] BAKKER, MENKO, DE
[73] WOBBEN PROPERTIES GMBH, DE
[86] (3133931)
[87] (3133931)
[22] 2021-10-12
[30] EP (20204138.0) 2020-10-27

[11] **3,133,933**
[13] C
[51] **Int.Cl. H02J 3/16 (2006.01) F03D 80/00 (2016.01) H02H 1/04 (2006.01)**
[25] EN
[54] **DYNAMIC FRT BANDS FOR WIND POWER INSTALLATIONS**
[54] **BANDES ANTI-PANNES DYNAMIQUES POUR DES INSTALLATIONS EOLIENNES**
[72] BROMBACH, JOHANNES, DE
[72] MACKENSEN, INGO, DE
[72] BUSKER, KAI, DE
[72] EMANUEL, HANNA, DE
[73] WOBBEN PROPERTIES GMBH, DE
[86] (3133933)
[87] (3133933)
[22] 2021-10-12
[30] EP (20204700.7) 2020-10-29

[11] **3,136,847**
[13] C
[51] **Int.Cl. G01N 27/06 (2006.01) A01N 37/16 (2006.01) A01N 59/00 (2006.01) A01P 1/00 (2006.01) A61L 2/18 (2006.01) C11D 7/18 (2006.01) C11D 7/38 (2006.01)**
[25] EN
[54] **METHOD OF MONITORING PERACID CONCENTRATIONS BY CONDUCTIVITY MEASUREMENTS AND PERACID COMPOSITION**
[54] **PROCEDE DE SURVEILLANCE DE CONCENTRATIONS EN PERACIDE PAR MESURES DE CONDUCTIVITE ET COMPOSITION DE PERACIDE**
[72] LI, JUNZHONG, US
[72] POWER, CALEB, US
[72] PRIDEAUX, ALLISON, US
[72] STAUB, RICHARD, US
[72] SIVASWAMY, VAIDEESWARAN, US
[72] KOEHL, JOHN PAUL, US
[73] ECOLAB USA, INC., US
[85] 2021-10-13
[86] 2020-05-29 (PCT/US2020/035050)
[87] (WO2020/243382)
[30] US (62/855,209) 2019-05-31

[11] **3,137,314**
[13] C
[51] **Int.Cl. G08B 5/36 (2006.01) G01P 3/36 (2006.01) G08B 29/00 (2006.01)**
[25] EN
[54] **FACILITY OCCUPANCY DETECTION WITH THERMAL GRID SENSOR**
[54] **DETECTION DE L'OCCUPATION D'UNE INSTALLATION AU MOYEN D'UN DETECTEUR RESEAU THERMIQUE**
[72] FEIL, BRANDON, US
[72] WILCOX, ANTHONY G., US
[72] CHAKRABORTY, ARINDAM, US
[72] TRICKLE, GLEN, US
[72] MCLEAN, JAMES, GB
[72] MARSHALL, SEBASTIAN, GB
[72] JOHNSTON, PAUL, GB
[73] ZURN INDUSTRIES, LLC, US
[73] WHIFFAWAY LTD, GB
[86] (3137314)
[87] (3137314)
[22] 2021-11-01
[30] US (17/121,487) 2020-12-14

[11] **3,137,510**
[13] C
[51] **Int.Cl. G16Z 99/00 (2019.01) G06T 19/00 (2011.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MERGING DISTANT SPACES**
[54] **METHODE ET SYSTEME POUR FUSIONNER DES ESPACES DISTANTS**
[72] PALMARO, GREGORY LIONEL XAVIER JEAN, US
[73] UNITY IPR APS, DK
[86] (3137510)
[87] (3137510)
[22] 2021-11-04
[30] US (63/109,637) 2020-11-04

[11] **3,137,745**
[13] C
[51] **Int.Cl. G06F 11/14 (2006.01)**
[25] EN
[54] **FAULT REPAIR METHOD FOR DATABASE SYSTEM, DATABASE SYSTEM, AND COMPUTING DEVICE**
[54] **PROCEDE DE REPARATION DE DEFAILLANCES DE SYSTEME DE BASE DE DONNEES, SYSTEME DE BASE DE DONNEES ET DISPOSITIF INFORMATIQUE**
[72] WANG, CHUANTING, CN
[72] ZHU, ZHONGCHU, CN
[72] XING, YUHUI, CN
[73] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2021-11-11
[86] 2020-05-13 (PCT/CN2020/089909)
[87] (WO2020/228712)
[30] CN (201910395371.7) 2019-05-13

[11] **3,138,589**
[13] C
[51] **Int.Cl. C12P 7/14 (2006.01) C12M 1/04 (2006.01) C12N 1/20 (2006.01) C12P 7/02 (2006.01) C12P 7/06 (2006.01) C12P 7/16 (2006.01) C12P 7/18 (2006.01)**
[25] EN
[54] **METHODS FOR OPTIMIZING GAS UTILIZATION**
[54] **PROCEDES D'OPTIMISATION DE L'UTILISATION DE GAZ**
[72] GAO, ALLAN HAIMING, US
[72] CONRADO, ROBERT JOHN, US
[72] BERNASEK, SEBASTIAN MICHAL, US
[72] SCHULTZ, MICHAEL ANTHONY, US
[73] LANZATECH, INC., US
[85] 2021-10-28
[86] 2020-06-15 (PCT/US2020/037729)
[87] (WO2021/006995)
[30] US (62/872,869) 2019-07-11

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[11] **3,139,660**
[13] C
[51] **Int.Cl. G01N 9/00 (2006.01) G01N 11/16 (2006.01)**
[25] EN
[54] **DETERMINING AND IDENTIFYING ANOMALIES IN FORK METERS**
[54] **DETERMINATION ET IDENTIFICATION D'ANOMALIES DANS DES COMPTEURS A RAMIFICATION**
[72] SMITH, KEVIN F., US
[73] MICRO MOTION, INC., US
[85] 2021-11-08
[86] 2019-05-09 (PCT/US2019/031536)
[87] (WO2020/226654)

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[11] **3,141,109**
[13] C
[51] **Int.Cl. G01L 27/00 (2006.01)**
[25] EN
[54] **HYBRID PRESSURE CALIBRATION**
[54] **ETALONNAGE DE PRESSION HYBRIDE**
[72] GLENN, JACOB, US
[73] BAKER HUGHES HOLDINGS LLC, US
[86] (3141109)
[87] (3141109)
[22] 2021-12-06
[30] US (17/116,515) 2020-12-09

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[11] **3,141,268**
[13] C
[51] **Int.Cl. G06F 3/01 (2006.01) G06T 7/20 (2017.01)**
[25] EN
[54] **DYNAMIC EYE-TRACKING CAMERA ALIGNMENT UTILIZING EYE-TRACKING MAPS**
[54] **ALIGNEMENT DYNAMIQUE D'UNE CAMERA DE SUIVI OCULAIRE A L'AIDE DE CARTES DE SUIVI OCULAIRE**
[72] ZERMAN, LEONARD, US
[72] FORSLAND, ANDREAS, US
[73] COGNIXION, US
[85] 2021-12-09
[86] 2020-04-24 (PCT/US2020/029938)
[87] (WO2020/223131)
[30] US (16/401,918) 2019-05-02

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[11] **3,141,556**
[13] C
[51] **Int.Cl. G06Q 20/00 (2012.01) G06Q 40/08 (2012.01)**
[25] EN
[54] **PAYMENT ANALYSIS AND PROCESSING METHOD AND DEVICE**
[54] **METHODE ET DISPOSITIF D'ANALYSE ET DE TRAITEMENT DE PAIEMENT**
[72] WAN, ZIYAN, CN
[72] ZHOU, XIANYONG, CN
[72] LI, WEI, CN
[73] 10353744 CANADA LTD., CA
[86] (3141556)
[87] (3141556)
[22] 2021-12-09
[30] CN (202011448239.7) 2020-12-09

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[11] **3,142,111**
[13] C
[51] **Int.Cl. A01D 34/14 (2006.01) A01D 34/18 (2006.01)**
[25] EN
[54] **CUTTING ASSEMBLY FOR AN AGRICULTURAL OR FORESTRY CUTTER**
[54] **SYSTEME DE COUPE POUR UN APPAREIL DE COUPE AGRICOLE OU FORESTIER**
[72] OTTO, SASCHA, DE
[72] SCHMIDT, RALF, DE
[73] SMF-HOLDING GMBH, DE
[85] 2021-11-26
[86] 2020-05-27 (PCT/EP2020/064776)
[87] (WO2020/239879)
[30] EP (19177104.7) 2019-05-28

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[11] **3,144,203**
[13] C
[51] **Int.Cl. A43B 17/00 (2006.01) A43B 17/14 (2006.01) A61F 5/14 (2006.01)**
[25] EN
[54] **SHOE INSOLE**
[54] **SEMELLE INTERIEURE DE CHAUSSURE**
[72] HIROSE, HAYATO, JP
[73] WINNING ONE CO., LTD., JP
[85] 2021-12-17
[86] 2020-10-29 (PCT/JP2020/040727)
[87] (WO2021/085574)
[30] JP (2019-197982) 2019-10-30

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[11] **3,145,943**
[13] C
[51] **Int.Cl. G01S 7/56 (2006.01) G01S 7/521 (2006.01) G01S 15/66 (2006.01)**
[25] EN
[54] **MARINE CHART AND SONAR IMAGE PRESENTATION SYSTEMS AND METHODS**
[54] **SYSTEMES ET METHODES DE PRESENTATION DE CARTE MARINE ET D'IMAGE DE SONAR**
[72] CLARK, JEREMIAH D., US
[73] NAVICO HOLDING AS, NO
[86] (3145943)
[87] (3145943)
[22] 2022-01-18
[30] US (17/174415) 2021-02-12

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[11] **3,146,252**
[13] C
[51] **Int.Cl. C22C 21/06 (2006.01) B32B 15/01 (2006.01) C22C 21/10 (2006.01) C22F 1/047 (2006.01) C22F 1/053 (2006.01)**
[25] EN
[54] **CLAD 2XXX-SERIES AEROSPACE PRODUCT**
[54] **PRODUIT AEROSPATIAL DE SERIE 2XXX PLAQUE**
[72] JACOBY, BERND, DE
[72] BURGER, ACHIM, DE
[72] SPANGEL, SABINE MARIA, DE
[72] MEYER, PHILIPPE, DE
[73] NOVELIS KOBLENZ GMBH, DE
[85] 2022-01-28
[86] 2020-08-13 (PCT/IB2020/057627)
[87] (WO2021/044239)
[30] EP (19195491.6) 2019-09-05

[11] **3,146,462**
[13] C
[51] **Int.Cl. A61L 31/00 (2006.01) A61B 1/12 (2006.01)**
[25] EN
[54] **VISCOELASTIC COMPOSITION FOR SECURING THE FIELD OF VIEW OF AN ENDOSCOPE**
[54] **COMPOSITION VISCOELASTIQUE POUR FIXER L'ANGLE DE CHAMP D'UN ENDOSCOPE**
[72] YANO, TOMONORI, JP
[72] OHHATA, ATSUSHI, JP
[72] GOTO, TOSHIHIRO, JP
[72] HIRAKI, YUJI, JP
[73] JICHI MEDICAL UNIVERSITY, JP
[73] OTSUKA PHARMACEUTICAL FACTORY, INC., JP
[86] (3146462)
[87] (3146462)
[22] 2016-09-28
[62] 3,000,614
[30] JP (2015-195105) 2015-09-30

[11] **3,146,630**
[13] C
[51] **Int.Cl. F25D 23/02 (2006.01)**
[25] EN
[54] **SIDE-OPEN LEFT-RIGHT-DOOR ARBITRARY-OPENING STRUCTURE OF REFRIGERATOR**
[54] **STRUCTURE DE REFRIGERATEUR A OUVERTURE ARBITRAIRE LATERALE A PORTE GAUCHE-DROITE**
[72] WU, PING, CN
[72] ZHANG, HAICHAO, CN
[72] CHONG, YANXI, CN
[72] NIE, WENWEN, CN
[72] WU, QINAN, CN
[73] SKYWORTH ELECTRIC CO., LTD., CN
[86] (3146630)
[87] (3146630)
[22] 2022-01-25
[30] CN (2021115614665) 2021-12-20

[11] **3,147,460**
[13] C
[51] **Int.Cl. A61K 9/133 (2006.01) C09K 23/00 (2022.01) C09K 23/14 (2022.01) A61K 8/14 (2006.01)**
[25] EN
[54] **INSOLUBLE ACTIVE SUBSTANCE CARRIER COMPRISING TRANSFERSOME**
[54] **VEHICULE DE SUBSTANCE ACTIVE INSOLUBLE CONTENANT DU TRANSFERSOME**
[72] KANG, SHINBEOM, KR
[72] PAIK, BYUNGRYOL, KR
[72] SONG, CHAEYEON, KR
[72] AN, SOONAE, KR
[73] AMOREPACIFIC CORPORATION, KR
[86] (3147460)
[87] (3147460)
[22] 2022-02-02
[30] KR (10-2021-0022078) 2021-02-18

[11] **3,147,512**
[13] C
[51] **Int.Cl. G01N 33/49 (2006.01) A61B 5/15 (2006.01) G01N 33/72 (2006.01)**
[25] EN
[54] **TANGENT FLOW HEMOLYSIS DETECTION BLOOD TESTING DEVICE**
[54] **DISPOSITIF DE TEST SANGUIN DE DETECTION D'HEMOLYSE A ECOULEMENT TANGENTIEL**
[72] KAUFFMANN, AARON, US
[72] LEDDEN, DAVID, US
[72] SAMPRONI, JENNIFER, US
[73] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2022-01-17
[86] 2019-12-05 (PCT/US2019/064636)
[87] (WO2021/015808)
[30] US (62/876,211) 2019-07-19

[11] **3,147,975**
[13] C
[51] **Int.Cl. F16L 23/10 (2006.01)**
[25] EN
[54] **RADIO-FREQUENCY IDENTIFICATION CONNECTOR**
[54] **CONNECTEUR D'IDENTIFICATION PAR RADIOFREQUENCE**
[72] PRICE, MARTIN R., US
[72] HAGEN, KRISTIAN JAMES, US
[72] SAUSEN, KARI ANN, US
[73] OETIKER NY, INC., US
[85] 2022-02-14
[86] 2020-06-15 (PCT/US2020/037760)
[87] (WO2021/066896)
[30] US (62/907,758) 2019-09-30

[11] **3,148,107**
[13] C
[51] **Int.Cl. C09D 133/00 (2006.01) C09D 7/20 (2018.01) C09D 5/02 (2006.01)**
[25] EN
[54] **COATING COMPOSITION FOR STAIN RESISTANT COATINGS**
[54] **COMPOSITION DE REVETEMENT POUR REVETEMENTS ANTITACHES**
[72] WANG, MARIA, US
[72] MCGRANE, KATIE L., US
[72] SWARUP, SHANTI, US
[73] PPG INDUSTRIES OHIO, INC., US
[85] 2022-01-19
[86] 2020-07-24 (PCT/US2020/043494)
[87] (WO2021/016559)
[30] US (16/521,850) 2019-07-25

[11] **3,148,522**
[13] C
[51] **Int.Cl. G01N 11/00 (2006.01) B08B 9/032 (2006.01) E21B 37/04 (2006.01) E21B 47/06 (2012.01)**
[25] EN
[54] **METHOD AND SYSTEM TO NON-INTRUSIVELY DETERMINE PROPERTIES OF DEPOSIT IN A FLUIDIC CHANNEL**
[54] **PROCEDE ET SYSTEME DE DETERMINATION NON INTRUSIVE DE PROPRIETES DE DEPOT DANS UN CANAL FLUIDIQUE**
[72] BENNETT, DAVID B., US
[72] OGUNDARE, OLUWATOSIN, US
[72] OLMI, CLAUDIO, US
[73] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2022-01-24
[86] 2020-06-12 (PCT/US2020/037535)
[87] (WO2021/126306)
[30] US (62/950,642) 2019-12-19
[30] US (16/885,386) 2020-05-28

[11] **3,148,529**
[13] C
[51] **Int.Cl. G01N 27/327 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING ANALYTE CONCENTRATION IN A SAMPLE**
[54] **PROCEDE DE DETERMINATION D'UNE CONCENTRATION EN ANALYTE DANS UN ECHANTILLON**
[72] LIU, ZUIFANG, GB
[72] MCCOLL, DAVID, GB
[72] DONALD, ROBERT, GB
[72] SALGADO, ANNA, GB
[72] SMITH, ANTONY, GB
[73] LIFESCAN IP HOLDINGS, LLC, US
[85] 2022-01-24
[86] 2019-07-24 (PCT/US2019/043238)
[87] (WO2021/015759)

[11] **3,148,659**
[13] C
[51] **Int.Cl. A23J 3/34 (2006.01) A23K 20/147 (2016.01) A23K 50/40 (2016.01) A23L 33/18 (2016.01) A23J 3/04 (2006.01) A23J 3/30 (2006.01) A61K 31/202 (2006.01) A61K 38/01 (2006.01)**
[25] EN
[54] **PROTEIN HYDROLYSATE FROM BLUE FISH**
[54] **HYDROLYSAT PROTEIQUE ISSU DE POISSONS BLEUS**
[72] GUERARD, FABIENNE, FR
[72] OROY, CLOE, FR
[72] LEPOUDERE, ANNE, FR
[72] CHATAIGNER, MATHILDE, FR
[72] ALLAUME, PATRICK, FR
[72] DINEL, ANNE-LAURE, FR
[72] JOFFRE, CORINNE, FR
[72] PALLET, VERONIQUE, FR
[72] LE GRAND, FABIENNE, FR
[73] SPECIALITES PET FOOD, FR
[73] UNIVERSITE DE BORDEAUX, FR
[73] UNIVERSITE DE BRETAGNE OCCIDENTALE, FR
[73] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE (CNRS), FR
[73] INSTITUT DE RECHERCHE POUR LE DEVELOPPEMENT, FR
[73] INSTITUT POLYTECHNIQUE DE BORDEAUX, FR
[73] ABYSS INGREDIENTS, FR
[73] INSTITUT FRANCAIS DE RECHERCHE POUR L'EXPLOITATION DE LA MER - IFREMER, FR
[73] INSTITUT NATIONAL DE RECHERCHE POUR L'AGRICULTURE, L'ALIMENTATION ET L'ENVIRONNEMENT, FR
[85] 2022-01-19
[86] 2020-07-31 (PCT/EP2020/071717)
[87] (WO2021/019093)
[30] FR (FR1908837) 2019-08-01

[11] **3,148,817**
[13] C
[51] **Int.Cl. B23K 35/28 (2006.01) B23K 35/02 (2006.01) B32B 15/01 (2006.01) B32B 15/20 (2006.01) C22C 21/00 (2006.01)**
[25] EN
[54] **IMPROVED ALUMINUM ALLOY BRAZING SHEETS FOR FLUXLESS BRAZING**
[54] **TOLE A BRASAGE AMELIOREE EN ALLIAGE D'ALUMINIUM POUR BRASAGE SANS FLUX**
[72] KULOVITS, ANDREAS, US
[72] ZHOU, TAO, US
[72] REN, BAOLUTE, US
[72] ZONKER, HARRY R., US
[73] ARCONIC TECHNOLOGIES LLC, US
[85] 2022-01-26
[86] 2020-09-28 (PCT/US2020/053022)
[87] (WO2021/067166)
[30] US (62/908,000) 2019-09-30

[11] **3,149,363**
[13] C
[51] **Int.Cl. G06Q 20/36 (2012.01) G06Q 20/04 (2012.01) G06Q 20/32 (2012.01) G06Q 20/38 (2012.01) G07F 17/32 (2006.01)**
[25] EN
[54] **TRANSACTION METHODS FOR MOBILE WALLET OPERATIONS IN A GAMING ENVIRONMENT**
[54] **PROCEDES DE TRANSACTION D'OPERATIONS DE PORTEFEUILLE MOBILE DANS UN ENVIRONNEMENT DE JEU**
[72] NGUYEN, MIKE, US
[72] KUBAJAK, DAVE, US
[72] ADAMS, MARK, US
[72] CASTILO, MARK, US
[73] JCM AMERICAN CORPORATION, US
[85] 2022-01-28
[86] 2020-10-09 (PCT/US2020/055099)
[87] (WO2021/072283)
[30] US (62/914,321) 2019-10-11
[30] US (16/823,677) 2020-03-19

[11] **3,149,962**
[13] C
[51] **Int.Cl. G10L 21/02 (2013.01) G10L 19/005 (2013.01) G10L 25/60 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR IMPROVING AUDIO QUALITY USING FEEDBACK CONTROL**
[54] **SYSTEMES ET PROCEDES POUR AMELIORER LA QUALITE AUDIO A L'AIDE D'UNE COMMANDE A RETROACTION**
[72] KOVACEVIC, MICHAEL, CA
[72] ROMAN, ALEXANDRU GABRIEL, CA
[73] TEXTNOW, INC., CA
[85] 2022-02-04
[86] 2020-08-18 (PCT/IB2020/057779)
[87] (WO2021/038385)
[30] US (62/890,768) 2019-08-23

[11] **3,151,188**
[13] C
[51] **Int.Cl. G05D 23/19 (2006.01) H01L 23/36 (2006.01) H05B 1/02 (2006.01)**
[25] EN
[54] **MULTIPLE HEATSINK COOLING SYSTEM FOR A LINE VOLTAGE THERMOSTAT**
[54] **MECANISME DE REFROIDISSEMENT DE PUITS THERMIQUES MULTIPLES DESTINE A UN THERMOSTAT DE TENSION DE SECTEUR**
[72] BRAVARD, LIONEL, US
[72] LANDRY, DANIEL, US
[72] MCNABB-BALTAR, JOEL, US
[72] TOUSIGNANT, DANIEL, US
[72] TREMBLAY, EVELYNE, US
[73] ADEMCO INC., US
[86] (3151188)
[87] (3151188)
[22] 2015-07-03
[62] 2,896,113
[30] US (14/329,357) 2014-07-11

[11] **3,151,189**
[13] C
[51] **Int.Cl. C07D 311/80 (2006.01)**
[25] EN
[54] **CRYSTAL PURIFICATION IN A GLASS OR METAL CONTAINER**
[54] **PURIFICATION DE CRISTAUX DANS UN RECIPIENT EN VERRE OU EN METAL**
[72] BETHERS, PRATT, US
[72] GOODMAN, DAVID, III, US
[73] BETHERS, PRATT, US
[73] MAHGOUB, MAGDI, US
[73] BETHERS, MARK, US
[73] PETERS, RAETH, US
[73] GRAY, LORIN, US
[86] (3151189)
[87] (3151189)
[22] 2019-07-02
[62] 3,048,350
[30] US (16/025,899) 2018-07-02

[11] **3,151,584**
[13] C
[51] **Int.Cl. H04N 19/70 (2014.01) H04N 19/12 (2014.01) H04N 19/129 (2014.01)**
[25] EN
[54] **AN APPARATUS, A METHOD AND A COMPUTER PROGRAM FOR VIDEO CODING AND DECODING**
[54] **APPAREIL, PROCEDE ET PROGRAMME INFORMATIQUE DE CODAGE ET DECODAGE VIDEO**
[72] LAINEMA, JANI, FI
[73] NOKIA TECHNOLOGIES OY, FI
[85] 2022-03-17
[86] 2020-09-09 (PCT/EP2020/075191)
[87] (WO2021/052832)
[30] US (62/903,116) 2019-09-20

[11] **3,152,606**
[13] C
[51] **Int.Cl. G16H 20/13 (2018.01) G16H 40/20 (2018.01)**
[25] EN
[54] **VARIABLE DOSE DISPENSING SYSTEM**
[54] **DISTRIBUTION DE DOSE VARIABLE DE MEDICAMENT**
[72] UTECH, THOMAS, US
[72] DAVIS, KIM E., US
[72] JASKELA, MARIA C., US
[73] CAREFUSION 303, INC., US
[86] (3152606)
[87] (3152606)
[22] 2014-01-22
[62] 2,899,012
[30] US (13/754,724) 2013-01-30

[11] **3,153,877**
[13] C
[51] **Int.Cl. A61K 31/12 (2006.01) A61P 11/00 (2006.01)**
[25] EN
[54] **CURCUMINOID COMPOSITION AND ITS THERAPEUTIC POTENTIAL IN MANAGING LUNG FIBROSIS**
[54] **COMPOSITION DE CURCUMINOIDE ET SON POTENTIEL THERAPEUTIQUE DANS LA PRISE EN CHARGE DE LA FIBROSE PULMONAIRE**
[72] MAJEED, MUHAMMED, IN
[72] NAGABHUSHANAM, KALYANAM, US
[72] MUNDKUR, LAKSHMI, IN
[72] RAMANUJAM, RAJENDRAN, IN
[73] MAJEED, MUHAMMED, IN
[73] NAGABHUSHANAM, KALYANAM, US
[73] MUNDKUR, LAKSHMI, IN
[73] RAMANUJAM, RAJENDRAN, IN
[85] 2022-04-06
[86] 2020-10-15 (PCT/US2020/055802)
[87] (WO2021/076771)
[30] US (62/915,068) 2019-10-15

[11] **3,153,913**
[13] C
[51] **Int.Cl. G10L 19/00 (2013.01)**
[25] EN
[54] **METHOD AND DEVICE FOR APPLYING DYNAMIC RANGE COMPRESSION TO A HIGHER ORDER AMBISONICS SIGNAL**
[54] **PROCEDE ET DISPOSITIF POUR APPLIQUER UNE COMPRESSION DE PLAGE DYNAMIQUE A UN SIGNAL AMBIOPHONIQUE D'ORDRE SUPERIEUR**
[72] BOEHM, JOHANNES, DE
[72] KEILER, FLORIAN, DE
[73] DOLBY INTERNATIONAL AB, IE
[86] (3153913)
[87] (3153913)
[22] 2015-03-24
[62] 2,946,916
[30] EP (14305423.7) 2014-03-24
[30] EP (14305559.8) 2014-04-15

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[11] **3,154,100**
[13] C
[51] **Int.Cl. B44C 5/04 (2006.01) A47B 96/20 (2006.01) B32B 3/30 (2006.01) B32B 38/10 (2006.01) B44C 3/02 (2006.01) B44F 9/00 (2006.01) E04C 2/52 (2006.01)**
[25] EN
[54] **DIGITAL PRINTING-STRUCTURED ANTIWEAR FILM HAVING ADJUSTABLE GLOSS LEVEL**
[54] **FILM ANTI-USURE A STRUCTURE D'IMPRESSION NUMERIQUE A NIVEAU DE BRILLANCE REGLABLE**
[72] HANNIG, HANS-JURGEN, DE
[73] AKZENTA PANEELE + PROFILE GMBH, DE
[85] 2022-03-10
[86] 2020-12-11 (PCT/EP2020/085834)
[87] (WO2021/116447)
[30] EP (19215652.9) 2019-12-12

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[11] **3,154,487**
[13] C
[51] **Int.Cl. C25B 1/042 (2021.01) H01M 8/2432 (2016.01) C25B 9/77 (2021.01) H01M 8/0232 (2016.01) H01M 8/124 (2016.01)**
[25] EN
[54] **METAL-SUPPORTED CELL UNIT**
[54] **UNITE DE CELLULE SUPPORTEE PAR DU METAL**
[72] SELBY, MARK, GB
[72] FREEMAN, EUAN NORMAN HARVEY, GB
[72] DOMANSKI, TOMASZ, GB
[72] NOBBS, CHRIS, GB
[73] CERES INTELLECTUAL PROPERTY COMPANY, GB
[85] 2022-04-12
[86] 2020-10-22 (PCT/EP2020/079783)
[87] (WO2021/078874)
[30] GB (1915438.4) 2019-10-24

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[11] **3,154,936**
[13] C
[51] **Int.Cl. C08L 95/00 (2006.01) C08K 3/013 (2018.01) C08K 3/36 (2006.01) C08K 7/28 (2006.01) C04B 14/18 (2006.01) C04B 26/26 (2006.01) C04B 38/08 (2006.01)**
[25] EN
[54] **BITUMEN PRODUCT COMPRISING CLOSED CELL EXPANDED PERLITE**
[54] **PRODUIT DE BITUME COMPRENANT UNE PERLITE EXPANSEE A CELLULES FERMEES**
[72] KREMER, HARTMUT, AT
[73] OMYA INTERNATIONAL AG, CH
[85] 2022-03-17
[86] 2020-09-23 (PCT/EP2020/076523)
[87] (WO2021/058535)
[30] EP (19199058.9) 2019-09-23

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[11] **3,156,151**
[13] C
[51] **Int.Cl. C22C 38/06 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01)**
[25] EN
[54] **COLD ROLLED AND HEAT-TREATED STEEL SHEET AND METHOD OF MANUFACTURING THE SAME**
[54] **TOLE D'ACIER LAMINEE A FROID ET TRAITEE THERMIQUEMENT ET PROCEDE DE FABRICATION D'UNE TELLE TOLE D'ACIER**
[72] PERLADE, ASTRID, FR
[72] ZHU, KANGYING, FR
[72] JUNG, CORALIE, FR
[72] KEGEL, FREDERIC, FR
[73] ARCELORMITTAL, LU
[85] 2022-03-29
[86] 2020-12-16 (PCT/IB2020/062011)
[87] (WO2021/124136)
[30] IB (PCT/IB2019/061102) 2019-12-19

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[11] **3,157,425**
[13] C
[51] **Int.Cl. C09D 133/02 (2006.01) C09D 133/08 (2006.01)**
[25] EN
[54] **COATING COMPOSITION AND USE THEREOF**
[54] **COMPOSITION DE REVETEMENT ET SON UTILISATION**
[72] MONNIN, YANN, FR
[72] DELATTRE, VIVIEN, FR
[72] DARCY, STEPHANE, FR
[72] RAMPI, VIRGINIE, FR
[73] PPG EUROPE B.V., NL
[85] 2022-05-05
[86] 2020-11-13 (PCT/EP2020/082125)
[87] (WO2021/094578)
[30] EP (19209138.7) 2019-11-14

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[11] **3,158,477**
[13] C
[51] **Int.Cl. G10L 21/02 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR NOISE CONTROL**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE BRUIT**
[72] ZHANG, CHENGQIAN, CN
[72] LIAO, FENGYUN, CN
[72] QI, XIN, CN
[73] SHENZHEN SHOKZ CO., LTD., CN
[85] 2022-04-21
[86] 2019-12-12 (PCT/CN2019/124894)
[87] (WO2021/114181)

[11] **3,159,886**
[13] C
[51] **Int.Cl. B22F 9/24 (2006.01) B22F 1/05 (2022.01) B01D 9/02 (2006.01) B22F 9/04 (2006.01) C01G 3/00 (2006.01)**
[25] EN
[54] **PROCESSES FOR PRODUCING GRANULAR COPPER**
[54] **PROCEDES DE PRODUCTION DE CUIVRE GRANULAIRE**
[72] BRINDLE, IAN DAVID, CA
[72] SHEEPWASH, MOLINA AUDREY LORRAINE, CA
[73] DESTINY COPPER INC., CA
[85] 2022-05-27
[86] 2022-05-02 (PCT/CA2022/050668)
[87] (WO2022/261745)
[30] US (63/202,486) 2021-06-14

[11] **3,163,314**
[13] C
[51] **Int.Cl. B22F 1/00 (2022.01) B33Y 80/00 (2015.01) B22F 10/00 (2021.01) B22F 9/08 (2006.01) C22C 38/14 (2006.01)**
[25] EN
[54] **METAL POWDER FOR ADDITIVE MANUFACTURING**
[54] **POUDRE METALLIQUE POUR FABRICATION ADDITIVE**
[72] REMENTERIA FERNANDEZ, ROSALIA, ES
[72] BONNET, FREDERIC, FR
[72] CORRAL CORRALES, MARIA ELENA, ES
[72] OBERBILLIG, CARLA, FR
[73] ARCELORMITTAL, LU
[85] 2022-05-30
[86] 2020-12-14 (PCT/IB2020/061889)
[87] (WO2021/124069)
[30] IB (PCT/IB2019/061165) 2019-12-20

[11] **3,163,435**
[13] C
[51] **Int.Cl. G11B 27/038 (2006.01)**
[25] EN
[54] **FADE DEVICE**
[54] **DISPOSITIF DE FONDU**
[72] RISHER, VAUGHAN, US
[73] RISHER, VAUGHAN, US
[85] 2022-06-29
[86] 2021-01-03 (PCT/US2021/012019)
[87] (WO2021/138649)
[30] US (62/957,188) 2020-01-04
[30] US (17/140,102) 2021-01-03

[11] **3,164,030**
[13] C
[51] **Int.Cl. C12M 1/26 (2006.01) C12N 5/078 (2010.01) C12Q 1/6806 (2018.01) B03C 1/033 (2006.01) C07K 1/00 (2006.01) C12M 1/00 (2006.01) C12M 1/42 (2006.01) C12N 5/00 (2006.01) C12N 15/10 (2006.01) C12N 15/87 (2006.01) C12Q 1/24 (2006.01) G01N 1/34 (2006.01) G01N 33/543 (2006.01)**
[25] EN
[54] **TORUS REACTOR FOR A COMBINED CELL ISOLATOR AND BIOREACTOR**
[54] **REACTEUR TORIQUE POUR ISOLATEUR DE CELLULES ET BIOREACTEUR COMBINES**
[72] DALY, JOHN, IE
[72] CURRAN, KIERAN, IE
[72] GLYNN, MACDARA, IE
[72] MCCABE, MARK, IE
[72] MERRIGAN, DAVID, IE
[72] RYAN, JASON, IE
[72] GRIFFIN, JOHN PAUL, IE
[72] RYAN, CAITRIONA, IE
[72] REDDIN, MARTIN, IE
[73] ANUCELL BIOSYSTEMS LIMITED, IE
[85] 2022-06-03
[86] 2020-12-04 (PCT/IB2020/000992)
[87] (WO2021/111182)
[30] US (16/706,558) 2019-12-06

[11] **3,164,052**
[13] C
[51] **Int.Cl. H03L 7/18 (2006.01)**
[25] EN
[54] **METHOD FOR UP-CONVERTING CLOCK SIGNAL, CLOCK CIRCUIT AND DIGITAL PROCESSING DEVICE**
[54] **PROCEDE D'AMPLIFICATION DE LA FREQUENCE D'UN SIGNAL D'HORLOGE, CIRCUIT D'HORLOGE ET DISPOSITIF DE TRAITEMENT NUMERIQUE**
[72] LIU, JIANBO, CN
[72] MA, WEIBIN, CN
[72] HUANG, LIHONG, CN
[72] YANG, ZUOXING, CN
[72] GUO, HAIFENG, CN
[73] SHENZHEN MICROBT ELECTRONICS TECHNOLOGY CO., LTD., CN
[85] 2022-06-09
[86] 2021-06-22 (PCT/CN2021/101449)
[87] (WO2021/259235)
[30] CN (202010582032.2) 2020-06-23

[11] **3,165,117**
[13] C
[51] **Int.Cl. B22D 11/114 (2006.01) B22D 11/16 (2006.01)**
[25] EN
[54] **ULTRASONIC TREATMENT FOR MICROSTRUCTURE REFINEMENT OF CONTINUOUSLY CAST PRODUCTS**
[54] **TRAITEMENT ULTRASONORE POUR L'AFFINAGE DE LA MICROSTRUCTURE DE PRODUITS COULES EN CONTINU**
[72] WAGSTAFF, SAMUEL ROBERT, US
[73] NOVELIS INC., US
[85] 2022-06-16
[86] 2021-01-14 (PCT/US2021/013370)
[87] (WO2021/162820)
[30] US (62/977,067) 2020-02-14

[11] **3,165,445**
[13] C
[51] **Int.Cl. A21C 11/24 (2006.01) A23L 7/109 (2016.01)**
[25] EN
[54] **NOODLE STRING CUTTING DEVICE, NOODLE MANUFACTURING DEVICE, AND NOODLE AND INSTANT NOODLE MANUFACTURING METHOD**
[54] **DISPOSITIF DE COUPE DE FIL DE NOUILLES, DISPOSITIF DE FABRICATION DE NOUILLES ET PROCEDE DE FABRICATION DE NOUILLES INSTANTANEES**
[72] NAGAYAMA, YOSHIAKI, JP
[73] SANYO FOODS CO., LTD., JP
[85] 2022-06-20
[86] 2019-12-23 (PCT/JP2019/050405)
[87] (WO2021/130825)

[11] **3,165,739**
[13] C
[51] **Int.Cl. H04W 72/40 (2023.01)**
[25] EN
[54] **RESOURCE RETRIEVE PROCEDURE**
[54] **PROCEDURE DE RECUPERATION DE RESSOURCES**
[72] HUI, BING, US
[72] YI, YUNJUNG, US
[72] DINAN, ESMAEL, US
[73] KONINKLIJKE PHILIPS N.V., NL
[85] 2022-06-22
[86] 2021-02-16 (PCT/US2021/018236)
[87] (WO2021/163699)
[30] US (62/975,909) 2020-02-13

[11] **3,166,079**
[13] C
[51] **Int.Cl. G06N 5/02 (2023.01) G06F 40/20 (2020.01)**
[25] EN
[54] **A PROCESSING METHOD, DEVICE AND ELECTRONIC DEVICE FOR A QUESTION-AND-ANSWER STATEMENT**
[54] **METHODE DE TRAITEMENT, DISPOSITIF ET DISPOSITIF ELECTRONIQUE POUR UN ENONCE DE QUESTION ET DE REPONSE**
[72] XIE, TIE, CN
[72] YANG, MENGYING, CN
[73] 10353744 CANADA LTD., CA
[86] (3166079)
[87] (3166079)
[22] 2022-06-29
[30] CN (202110724705.8) 2021-06-29

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[11] **3,166,260**
[13] C
[51] **Int.Cl. E04B 1/24 (2006.01)**
[25] EN
[54] **CONNECTION NODE FOR MODULAR BUILDING STRUCTURES**
[54] **NOEUD DE RACCORDEMENT POUR STRUCTURES DE CONSTRUCTION MODULAIRES**
[72] PARKHOUSE, LEON, US
[72] VITTADINI, ANDREA, US
[72] CLARK, MATTHEW CHARLES JOHN, US
[72] ANDREATTA, SIMONE, IT
[72] SABY, VICTOIRE MORGANE CHLOE, US
[73] ASSEMBLY OSM, INC., US
[85] 2022-07-27
[86] 2021-02-03 (PCT/US2021/070116)
[87] (WO2021/159141)
[30] US (62/971,669) 2020-02-07
[30] US (16/987,641) 2020-08-07

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[11] **3,166,324**
[13] C
[51] **Int.Cl. A61H 3/04 (2006.01) A61H 3/00 (2006.01)**
[25] EN
[54] **BODYWEIGHT UNLOADING LOCOMOTIVE DEVICE**
[54] **DISPOSITIF DE LOCOMOTION DE DECHARGEMENT DE POIDS CORPOREL**
[72] BURNS, RICHARD S., US
[72] BURNS, ANDREW J.D., US
[73] BURNS, RICHARD S., US
[73] BURNS, ANDREW J.D., US
[85] 2022-06-28
[86] 2021-01-27 (PCT/US2021/015335)
[87] (WO2021/154889)
[30] US (62/967,011) 2020-01-28

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[11] **3,166,664**
[13] C
[51] **Int.Cl. H01S 5/183 (2006.01)**
[25] EN
[54] **AUGMENTED SEMICONDUCTOR LASERS WITH SPONTANEOUS EMISSIONS BLOCKAGE**
[54] **LASERS A SEMI-CONDUCTEURS AUGMENTES AVEC BLOCAGE DES EMISSIONS SPONTANEES**
[72] FROUGIER, JULIEN, US
[72] CHENG, KANGGUO, US
[72] XIE, RUILONG, US
[72] PARK, CHANRO, US
[73] INTERNATIONAL BUSINESS MACHINES CORPORATION, US
[85] 2022-07-30
[86] 2021-01-28 (PCT/IB2021/050660)
[87] (WO2021/186257)
[30] US (16/819,250) 2020-03-16

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[11] **3,167,132**
[13] C
[51] **Int.Cl. B65D 33/25 (2006.01) B65D 75/22 (2006.01) B65D 75/32 (2006.01)**
[25] EN
[54] **SHAPED ELASTOMERIC CONTAINER WITH INTEGRATED LEAK RESISTANT SEAL AND PRESSURE SHIELD**
[54] **RECIPIENT ELASTOMERE PROFILE POURVU D'UN JOINT D'ETANCHEITE RESISTANT AUX FUITES ET ELEMENT DE PROTECTION CONTRE LA PRESSION INTEGRES**
[72] NOURI, KATOUSHA GHAEMI, US
[72] CARPINELLI, ANGELO, US
[72] MAGUIRE, PAUL, US
[72] AU, BRYAN KIN FO, US
[73] STASHER, INC., US
[85] 2022-08-04
[86] 2021-02-08 (PCT/US2021/017074)
[87] (WO2021/159067)
[30] US (16/783,318) 2020-02-06
[30] US (16/945,703) 2020-07-31

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[11] **3,168,308**
[13] C
[51] **Int.Cl. H01Q 3/32 (2006.01) H04B 17/318 (2015.01) H01Q 19/18 (2006.01)**
[25] EN
[54] **REDUCED SCAN LOSS ANTENNA SYSTEMS FOR COMMUNICATING WITH SATELLITES AT LOW ELEVATION ANGLES**
[54] **SYSTEMES D'ANTENNE A PERTE DE BALAYAGE REDUITE POUR COMMUNIQUER AVEC DES SATELLITES A FAIBLE INCLINAISON**
[72] REDA, AMIN, US
[72] EBADI, SIAMAK, US
[72] OSORIO, ANDRES FELIPE, US
[72] TURKOWSKI, STEFAN WILLIAM, US
[73] UTVATE CORPORATION, US
[85] 2022-07-18
[86] 2021-01-19 (PCT/US2021/014022)
[87] (WO2021/150527)
[30] US (62/964,376) 2020-01-22
[30] US (63/019,228) 2020-05-01
[30] US (63/060,101) 2020-08-02
[30] US (17/100,760) 2020-11-20

[11] **3,168,505**
[13] C
[51] **Int.Cl. A23L 3/54 (2006.01) A23B 7/02 (2006.01) A23N 12/08 (2006.01) F26B 7/00 (2006.01) F26B 11/00 (2006.01) F26B 25/22 (2006.01)**
[25] EN
[54] **DEHYDRATING APPARATUS AND METHOD**
[54] **APPAREIL ET PROCEDE DE DESHYDRATATION**
[72] HAMZEHALI, AMIR, CA
[72] KHIABANI, MAHYA ALIASL, CA
[73] CANDRY TECHNOLOGIES INC., CA
[85] 2022-08-18
[86] 2021-02-22 (PCT/CA2021/050206)
[87] (WO2021/168550)
[30] US (62/980,948) 2020-02-24

[11] **3,169,173**
[13] C
[51] **Int.Cl. F23J 11/02 (2006.01)**
[25] EN
[54] **VEHICLE EXHAUST EVACUATION SYSTEM**
[54] **SYSTEME D'EVACUATION DES GAZ D'ECHAPPEMENT DES VEHICULES**
[72] MILLER, PAUL E., US
[73] ROSSMAN ENTERPRISES, INC., US
[86] (3169173)
[87] (3169173)
[22] 2022-07-28
[30] US (17/391,501) 2021-08-02

[11] **3,169,563**
[13] C
[51] **Int.Cl. A01G 9/02 (2018.01) B65D 30/10 (2006.01) B65D 33/01 (2006.01)**
[25] EN
[54] **READY TO USE GROW BAGS AND METHODS OF MAKING AND USING THE SAME**
[54] **SACS DE CULTURE PRETS A L'EMPLOI ET METHODES DE FABRICATION ET D'UTILISATION CONNEXES**
[72] FEAR, DOUGLAS DANIEL, US
[72] NORTH, RICHARD W., US
[73] FEAR, DOUGLAS DANIEL, US
[73] NORTH, RICHARD W., US
[86] (3169563)
[87] (3169563)
[22] 2022-08-04
[30] US (63/229,311) 2021-08-04

[11] **3,169,689**
[13] C
[51] **Int.Cl. B25J 15/00 (2006.01) B25J 15/06 (2006.01) B25J 15/10 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ACQUIRING AND MOVING OBJECTS**
[54] **SYSTEMES ET PROCEDES POUR ACQUERIR ET DEPLACER DES OBJETS**
[72] WAGNER, THOMAS, US
[72] AHEARN, KEVIN, US
[72] COHEN, BENJAMIN, US
[72] DAWSON-HAGGERTY, MICHAEL, US
[72] GEYER, CHRISTOPHER, US
[72] KOLETSCHKA, THOMAS, US
[72] MARONEY, KYLE, US
[72] MASON, MATTHEW, US
[72] PRICE, GENE TEMPLE, US
[72] ROMANO, JOSEPH, US
[72] SMITH, DANIEL, US
[72] SRINIVASA, SIDDHARTHA, US
[72] VELAGAPUDI, PRASANNA, US
[72] ALLEN, THOMAS, US
[73] BERKSHIRE GREY OPERATING COMPANY, INC., US
[86] (3169689)
[87] (3169689)
[22] 2016-12-07
[62] 3,009,648
[30] US (62/276,653) 2016-01-08

[11] **3,170,827**
[13] C
[51] **Int.Cl. E01D 19/02 (2006.01) E01D 19/14 (2006.01) E02D 27/50 (2006.01)**
[25] EN
[54] **FLARED REINFORCED PIER AND PIER BRACKET ASSEMBLY AND METHODS OF MANUFACTURING AND USE**
[54] **QUAI EVASE RENFORCE ET ASSEMBLAGE DE SUPPORT DE QUAI ET METHODES DE FABRICATION ET D'UTILISATION**
[72] GANTT, WILLIAM A., US
[73] INDEPENDENCE MATERIALS GROUP, LLC, US
[86] (3170827)
[87] (3170827)
[22] 2022-08-19
[30] US (17/889,302) 2022-08-16
[30] US (63/236,273) 2021-08-24

[11] **3,172,977**
[13] C
[51] **Int.Cl. D01F 9/155 (2006.01) C08J 3/20 (2006.01) D01D 5/08 (2006.01) C08L 23/06 (2006.01) C08L 23/12 (2006.01) C08L 27/06 (2006.01) C08L 95/00 (2006.01)**
[25] EN
[54] **PRODUCTION OF CARBON FIBER FROM ASPHALTENES IN THE PRESENCE OF A POLYMER**
[54] **PRODUCTION DE FIBRE DE CARBONE A PARTIR D'ASPHALTENES EN PRESENCE D'UN POLYMERE**
[72] REMESAT, DARIUS, CA
[73] SUNCOR ENERGY INC., CA
[86] (3172977)
[87] (3172977)
[22] 2021-07-14
[62] 3,124,537

[11] **3,174,601**
[13] C
[51] **Int.Cl. G06F 40/30 (2020.01)**
[25] EN
[54] **TEXT INTENT IDENTIFYING METHOD, DEVICE, COMPUTER EQUIPMENT AND STORAGE MEDIUM**
[54] **APPAREIL ET PROCEDE DE RECONNAISSANCE D'INTENTION DE TEXTE, DISPOSITIF INFORMATIQUE ET SUPPORT DE STOCKAGE**
[72] XIN, LIANGLIANG, CN
[72] NI, HEQIANG, CN
[72] BAI, YUN, CN
[72] PAN, YINGBO, CN
[72] SUN, QIANG, CN
[73] 10353744 CANADA LTD., CA
[85] 2022-09-06
[86] 2020-06-19 (PCT/CN2020/097006)
[87] (WO2021/174717)
[30] CN (202010146166.X) 2020-03-05

[11] **3,175,709**
[13] C
[51] **Int.Cl. G01D 11/24 (2006.01) E21B 17/02 (2006.01) E21B 47/01 (2012.01) E21B 47/16 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR OPERATIVELY MOUNTING ACTUATORS TO PIPE**
[54] **PROCEDES ET APPAREIL DE MONTAGE FONCTIONNEL D'ACTIONNEURS SUR UNE TIGE**
[72] LI-LEGER, NOAH, CA
[72] RIZUN, PETER, CA
[72] PACURARI, NICOLAI CALIN, CA
[72] BERGMANN, CRAIG ANTHONY, CA
[72] SAED, ARYAN, CA
[73] COLD BORE TECHNOLOGY INC., CA
[86] (3175709)
[87] (3175709)
[22] 2014-08-22
[62] 2,924,391
[30] US (61/883,864) 2013-09-27
[30] US (61/982,863) 2014-04-22

[11] **3,186,070**
[13] C
[51] **Int.Cl. G09B 19/24 (2006.01) G09B 23/28 (2006.01)**
[25] EN
[54] **DENTAL TRAINING DEVICES, SYSTEMS, AND METHODS**
[54] **DISPOSITIFS, SYSTEMES ET PROCEDES DE FORMATION DENTAIRE**
[72] PASCHKE, RICHARD H., US
[72] DRYER, MARIANNE, US
[72] PASCHKE, NOEL S., US
[73] PASCHKE ULTRASONIX LLC, US
[85] 2023-01-13
[86] 2021-07-16 (PCT/US2021/041993)
[87] (WO2022/016061)
[30] US (63/052,539) 2020-07-16

[11] **3,189,496**
[13] C
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-PVRIG PROTEIN ANTIBODY OR ANTIBODY FRAGMENT AND USE THEREOF**
[54] **ANTICORPS DE PROTEINE ANTI-PVRIG OU FRAGMENT D'ANTICORPS ET SON UTILISATION**
[72] TIAN, ZHIGANG, CN
[72] LI, YANGYANG, CN
[72] XIAO, WEIHUA, CN
[72] SUN, RUI, CN
[72] SUN, HAOYU, CN
[73] HEFEI TG IMMUNOPHARMA CO., LTD., CN
[85] 2023-02-14
[86] 2022-03-07 (PCT/CN2022/079449)
[87] (WO2022/188721)
[30] CN (202110250342.9) 2021-03-08

[11] **3,190,431**
[13] C
[51] **Int.Cl. H02K 1/02 (2006.01) H02K 21/14 (2006.01) H02K 27/00 (2006.01) H02P 7/00 (2016.01) H02P 25/00 (2006.01) H02P 27/00 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION WITHIN AN ELECTRIC MACHINE WITH RECTIFIED ROTOR WINDINGS**
[54] **DISTRIBUTION DE COURANT DANS UNE MACHINE ELECTRIQUE A ENROULEMENTS ROTORIQUES REDRESSES**
[72] PREINDL, MATTHIAS, US
[72] PENNINGTON, WALTER WESLEY, III, US
[72] RUBIN, MATTHEW J., US
[72] STEVENSON, GREGORY GORDON, US
[72] OWEN, MICHAEL PARKER, US
[72] BAGGET SWINT, ETHAN, US
[73] TAU MOTORS, INC., US
[85] 2023-01-26
[86] 2021-08-02 (PCT/US2021/044213)
[87] (WO2022/026957)
[30] US (63/059,930) 2020-07-31

[11] **3,191,409**
[13] C
[51] **Int.Cl. H04M 3/22 (2006.01) H04W 4/24 (2018.01) H04M 3/42 (2006.01) H04M 15/00 (2006.01) H04M 15/06 (2006.01) H04Q 11/04 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR DETECTION OF CALL SIGNAL MANIPULATION**
[54] **PROCEDE ET SYSTEME DE DETECTION DE MANIPULATION DE SIGNAL D'APPEL**
[72] OKHRIMENKO, SERGEI, RU
[73] AB HANDSHAKE CORPORATION, US
[85] 2023-03-01
[86] 2021-08-18 (PCT/US2021/046433)
[87] (WO2022/051091)
[30] US (17/011,336) 2020-09-03

[11] **3,206,051**
[13] C
[51] **Int.Cl. F03D 13/10 (2016.01) F03D 13/40 (2016.01) B66C 23/18 (2006.01) B66C 23/26 (2006.01)**
[25] EN
[54] **METHOD OF DISMOUNTING OR MOUNTING A ROTOR BLADE OF A WIND TURBINE**
[54] **PROCEDE DE DEMONTAGE OU DE MONTAGE DE PALE DE ROTOR D'EOLIENNE**
[72] AITKEN, GLEN D., CA
[73] LIFTWERX HOLDINGS INC., CA
[85] 2023-07-21
[86] 2022-04-14 (PCT/CA2022/050581)
[87] (WO2022/217362)
[30] US (63/175,217) 2021-04-15

[11] **3,208,671**
[13] C
[51] **Int.Cl. C07H 17/00 (2006.01) A61K 31/4741 (2006.01) A61K 31/706 (2006.01) A61P 35/00 (2006.01) C07D 491/052 (2006.01)**
[25] EN
[54] **SELECTIVE ESTROGEN RECEPTOR DEGRADERS**
[54] **AGENTS DE DEGRADATION SELECTIFS DU RECEPTEUR DES OESTROGENES**
[72] CASSIDY, KENNETH CHARLES, US
[72] KATYAYAN, KISHORE KUMAR, US
[73] ELI LILLY AND COMPANY, US
[85] 2023-08-16
[86] 2022-03-10 (PCT/US2022/019770)
[87] (WO2022/197528)
[30] US (63/161,531) 2021-03-16

[11] **3,210,891**
[13] C
[51] **Int.Cl. E21B 41/00 (2006.01) F03G 4/00 (2006.01) F03G 7/04 (2006.01)**
[25] EN
[54] **GEOPRESSURE AND GEOTHERMAL POWER SYSTEM**
[54] **SYSTEME D'ALIMENTATION SOUS PRESSION GEOSTATIQUE ET GEOTHERMIQUE**
[72] WEISS, NATHAN, US
[72] SIMPKINS, DOUGLAS, US
[72] RING, LEV M., US
[72] COOK, ROBERT LANCE, US
[73] SAGE GEOSYSTEMS INC., US
[85] 2023-08-08
[86] 2022-11-07 (PCT/US2022/079392)
[87] (WO2023/081881)
[30] US (63/276,638) 2021-11-07

[11] **3,218,836**
[13] C
[51] **Int.Cl. G01N 27/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR SMART MATERIAL MONITORING**
[54] **SYSTEME ET PROCEDE PERMETTANT UNE SURVEILLANCE INTELLIGENTE D'UN MATERIAU**
[72] AGOSTINELLI, GREGORY A., CA
[72] HANNA, STEVEN NASHED, US
[72] MIREL, IONUT ALEXANDRU, CA
[73] IDEACURIA INC., CA
[86] (3218836)
[87] (3218836)
[22] 2016-06-10
[62] 2,989,096
[30] US (62/174,918) 2015-06-12

[11] **3,222,904**
[13] C
[51] **Int.Cl. B60P 1/43 (2006.01) B65G 67/24 (2006.01)**
[25] EN
[54] **DUAL ACTING CARGO VAN DOOR AND RAMP SYSTEM**
[54] **SYSTEME DE PORTE ET DE RAMPE DE FOURGON UTILITAIRE A DOUBLE ACTION**
[72] CABANUS, CHRISTOPHER LEE, CA
[72] LEHTI, MICHAEL GORDON, CA
[73] MULTIMATIC INC., CA
[85] 2023-12-14
[86] 2022-07-12 (PCT/CA2022/051081)
[87] (WO2023/283729)
[30] US (63/220,831) 2021-07-12

[11] **3,223,167**
[13] C
[51] **Int.Cl. F24F 12/00 (2006.01) F24F 3/147 (2006.01) F28F 9/00 (2006.01)**
[25] EN
[54] **ENERGY RECOVERY VENTILATOR**
[54] **VENTILATEUR DE RECUPERATION D'ENERGIE**
[72] GIBBON, BRIAN KEITH, CA
[73] NU-AIR VENTILATION SYSTEMS INCORPORATED, CA
[86] (3223167)
[87] (3223167)
[22] 2023-12-14
[30] US (18/228,221) 2023-07-31

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17 mars 2024 au 23 mars 2024

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[21] **3,174,682**
[13] A1
[51] **Int.Cl. F24T 10/20 (2018.01) E21B 43/20 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ENHANCING HEAT RECOVERY IN A RESERVOIR**
[54] **SYSTEME ET METHODE POUR AMELIORER LA RECUPERATION THERMIQUE DANS UN RESERVOIR**
[72] BEENTJES, IVAN, CA
[72] SMITH, JENNIFER, CA
[71] SUNCOR ENERGY INC., CA
[22] 2022-09-19
[41] 2024-03-19

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[21] **3,174,697**
[13] A1
[51] **Int.Cl. H01M 10/0565 (2010.01) H01M 4/131 (2010.01) H01M 10/0525 (2010.01)**
[25] EN
[54] **RISING A POLYMER ELECTROLYTE AND A NICKEL BASED CATHODE ACTIVE MATERIAL**
[54] **COMPRENANT UN ELECTROLYTE POLYMERE ET UNE MATIERE ACTIVE DE CATHODE A BASE DE NICKEL**
[72] KELCHTERMANS, AN-SOFIE, BE
[72] JOOS, BJORN, BE
[72] HARDY, AN, BE
[72] VAN BAEL, MARLIES, BE
[71] UMICORE, BE
[22] 2022-09-19
[41] 2024-03-19

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[21] **3,174,732**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G06F 3/0482 (2013.01) G06F 3/04842 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD OF FACILITATING MEDICAL APPOINTMENT RECORD CREATION WITH A MINIMUM OF USER INPUT ACTIONS**
[54] **SYSTEME ET METHODE POUR FACILITER LA CREATION DE DOSSIERS DE RENDEZ-VOUS MEDICAL SELON UN MINIMUM D~ENTREES UTILISATEUR POSSIBLE**
[72] YOUSSEF, VICTOR, CA
[72] FRANCIS, MALAK, EG
[72] ANEES, INGY, EG
[71] TAPTYPE LIMITED, IE
[22] 2022-09-17
[41] 2024-03-17

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[21] **3,174,768**
[13] A1
[51] **Int.Cl. A61L 9/01 (2006.01)**
[25] EN
[54] **PERFECTION - NEW SCENT COMPOSITION**
[54] **PERFECTION : NOUVELLE COMPOSITION DE PARFUM**
[72] MCFARLANE, LAHANNA REBECCA, CA
[72] BLACKWOOD, ONNEX, CA
[71] MCFARLANE, LAHANNA REBECCA, CA
[71] BLACKWOOD, ONNEX, CA
[22] 2022-09-20
[41] 2024-03-20

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[21] **3,174,804**
[13] A1
[51] **Int.Cl. E21B 43/27 (2006.01) B65G 5/00 (2006.01)**
[25] EN
[54] **METHOD TO IMPROVE CARBON CAPTURE AND STORAGE**
[54] **METHODE POUR AMELIORER LA CAPTURE ET LE STOCKAGE DE CARBONE**
[72] WEISSENBERGER, MARKUS, CA
[71] FLUID ENERGY GROUP LTD., CA
[22] 2022-09-19
[41] 2024-03-19

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[21] **3,174,866**
[13] A1
[51] **Int.Cl. A01K 1/00 (2006.01) A01K 1/03 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTINUOUS LIVESTOCK SUPPLY**
[54] **SYSTEMES ET METHODES D~APPROVISIONNEMENT CONTINU EN BETAIL**
[72] BLACKSTOCK, SCOTT S., US
[71] LIMIN' INNOVATIONS LLC, US
[22] 2022-09-19
[41] 2024-03-19

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[21] **3,174,875**
[13] A1
[51] **Int.Cl. B01D 47/02 (2006.01)**
[25] EN
[54] **WATER FILTRATION APPARATUS**
[54] **APPAREIL DE FILTRATION D~EAU**
[72] TRZECIESKI, MICHAEL, CA
[71] TRZECIESKI, MICHAEL, CA
[22] 2022-09-20
[41] 2024-03-20

[21] **3,174,929**
[13] A1
[51] **Int.Cl. H05K 7/06 (2006.01) H02M 1/00 (2007.10) H05K 1/18 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **PRINTED CIRCUIT BOARD COMPRISING A PLURALITY OF POWER TRANSISTOR SWITCHING CELLS IN PARALLEL**
[54] **CARTE DE CIRCUITS IMPRIMES COMPRENANT PLUSIEURS CELLULES DE COMMUTATION DE TRANSISTOR DE PUISSANCE EN PARALLELE**
[72] FORTIN-BLANCHETTE, HANDY, CA
[72] BLANCHET, PIERRE, CA
[71] IDENERGIE INC., CA
[22] 2022-09-20
[41] 2024-03-20

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[21] **3,175,229**
[13] A1
[51] **Int.Cl. E21B 43/40 (2006.01) C10G 1/04 (2006.01) E21B 43/24 (2006.01) F22B 1/16 (2006.01)**
[25] EN
[54] **INTEGRATED BITUMENT AND PRODUCED WATER STEAM GENERATION**
[54] **GENERATION INTEGREE DE VAPEUR A PARTIR DE BITUME ET D~EAU PRODUITE**
[72] BERNAR, RODGER, CA
[71] BERNAR, RODGER, CA
[22] 2022-09-21
[41] 2024-03-21

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[21] **3,175,245**
[13] A1
[51] **Int.Cl. G06N 10/60 (2022.01) G06N 10/20 (2022.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IMPROVING THE EFFICIENCY OF INPUTS TO QUANTUM COMPUTATIONAL DEVICES**
[54] **SYSTEME ET METHODE POUR AMELIORER L~EFFICACITE DES ENTREES DANS LES DISPOSITIFS DE CALCUL QUANTIQUE**
[72] RAMAKRISHNAN, VISWESWARAN, CA
[71] COGNIFRAME INC., CA
[22] 2022-09-21
[41] 2024-03-21

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[21] **3,175,260**
[13] A1
[51] **Int.Cl. H04L 67/62 (2022.01) H04L 47/122 (2022.01) H04L 51/07 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MANAGING ACCESS TO RESOURCES IN A COMPUTING ENVIRONMENT**
[54] **SYSTEMES ET METHODES POUR LA GESTION DE L~ACCES AUX RESSOURCES DANS UN ENVIRONNEMENT INFORMATIQUE**
[72] DUNJIC, MILOS, CA
[72] TAX, DAVID SAMUEL, CA
[72] RASTOGI, KUSHANK, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-09-22
[41] 2024-03-22

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[21] **3,175,296**
[13] A1
[51] **Int.Cl. G09B 5/00 (2006.01) G06Q 50/20 (2012.01) G16H 50/30 (2018.01) G06N 20/00 (2019.01) A61B 5/00 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD OF PROVIDING INSTRUCTION USING ARTIFICIAL INTELLIGENCE**
[54] **SYSTEME ET METHODE POUR FOURNIR DES INSTRUCTIONS AU MOYEN DE L~INTELLIGENCE ARTIFICIELLE**
[72] PANGYEOW, TAY, CA
[72] GUEVARRA, MICHAEL, CA
[72] TAYLOR, MATTHEW, CA
[72] DAS, SRIJITA, CA
[72] WAYLLACE, CHRISTABEL, CA
[72] DEMMANS EPP, CARRIE, CA
[71] DELPHI TECHNOLOGY CORP., CA
[22] 2022-09-22
[41] 2024-03-22

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[21] **3,175,333**
[13] A1
[51] **Int.Cl. A63C 17/26 (2006.01) A63C 17/01 (2006.01) G08C 17/02 (2006.01) G05D 1/223 (2024.01) H04W 84/18 (2009.01)**
[25] EN
[54] **SELECTIVE ENGAGED AXLE(S) IN ELECTRIC SKATEBOARD/LONGBOARD**
[54] **ESSIEUX EN CONTACT SELECTIF POUR UNE PLANCHE A ROULETTES/DE PARC ELECTRIQUE**
[72] MANSOURI, ARMIN, CA
[71] MANSOURI, ARMIN, CA
[22] 2022-09-22
[41] 2024-03-22

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[21] **3,175,448**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/40 (2020.01)**
[25] EN
[54] **VAPORIZER POD WITH CONDUCTIVE BASE**
[54] **CAPSULE DE VAPORISATEUR A BASE CONDUCTRICE**
[72] COREY CHARLES HOLTON, IRELAND, CA
[72] ANDRADE, DILIP, CA
[72] WONG, TIMOTHY SB, CA
[72] AMJAD, MIAN SHEIKH WASEEM, CA
[71] 2792684 ONTARIO INC., CA
[22] 2022-09-23
[41] 2024-03-23

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[21] **3,175,475**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/10 (2020.01) A24F 40/44 (2020.01) A24F 40/46 (2020.01)**
[25] EN
[54] **VAPORIZER POD WITH CONDUCTIVE BASE**
[54] **CAPSULE DE VAPORISATEUR A BASE CONDUCTRICE**
[72] COREY CHARLES HOLTON, IRELAND, CA
[72] ANDRADE, DILIP, CA
[72] WONG, TIMOTHY SB, CA
[72] AMJAD, MIAN SHEIKH WASEEM, CA
[71] 2792684 ONTARIO INC., CA
[22] 2022-09-23
[41] 2024-03-23

[21] **3,175,520**
[13] A1
[51] **Int.Cl. A47H 3/00 (2006.01)**
[25] EN
[54] **BLIND LINE PROTECTION DEVICE**
[54] **DISPOSITIF DE PROTECTION DE CHAINE DE STORE**
[72] MELOCHE, BENOIT, CA
[71] PLASTIBEC INC., CA
[22] 2022-09-23
[41] 2024-03-23

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[21] **3,175,615**
[13] A1
[51] **Int.Cl. G12B 3/08 (2006.01) G01V 3/165 (2006.01)**
[25] EN
[54] **APPARATUS FOR STABILIZATION OF AN INSTRUMENT PLATFORM**
[54] **APPAREIL DE STABILISATION D~UNE PLATEFORME A INSTRUMENTS**
[72] POLZER, BENJAMIN DAVID, CA
[72] BAILEY, RICHARD CURTIS, CA
[71] VALE S.A., BR
[22] 2022-09-20
[41] 2024-03-20

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[21] **3,175,731**
[13] A1
[51] **Int.Cl. E06B 3/72 (2006.01) E06B 3/54 (2006.01)**
[25] EN
[54] **FRAMED GLASS ADJUSTMENT ASSEMBLIES**
[54] **ASSEMBLAGES D~AJUSTEMENT DE VERRE ENCADRE**
[72] LANGE, JEFFREY K., CA
[72] MARSHALL, DALE R., CA
[71] FALKBUILT LTD., CA
[22] 2022-09-21
[41] 2024-03-21

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[21] **3,176,424**
[13] A1
[51] **Int.Cl. H01B 17/02 (2006.01) H01B 3/46 (2006.01) H01B 17/06 (2006.01) H01B 17/12 (2006.01) H01B 17/32 (2006.01)**
[25] EN
[54] **MOISTURE SHEDDING ELECTRICAL INSULATOR FOR POWER AND TRANSMISSION LINES**
[54] **ISOLANT ELECTRIQUE A REDANS DE CONDENSATION POUR LES LIGNES D~ALIMENTATION ET DE TRANSMISSION**
[72] PADMAWAR, RAJKUMAR, CA
[71] PADMAWAR, RAJKUMAR, CA
[22] 2022-09-22
[41] 2024-03-22

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[21] **3,178,227**
[13] A1
[51] **Int.Cl. G06F 9/50 (2006.01) G06Q 20/20 (2012.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REAL TIME ACCESS TO EXTERNAL RESOURCE**
[54] **SYSTEMES ET METHODES POUR L~ACCES EN TEMPS REEL A UNE RESSOURCE EXTERNE**
[72] DUNJIC, MILOS, CA
[72] TAX, DAVID SAMUEL, CA
[72] RASTOGI, KUSHANK, CA
[72] KELLY, THOMAS OSMAN, CA
[72] GUPTA, PRANAY, CHANDER, CA
[72] BAJAJ, HITESH, CA
[72] JOHEB, ASAD, CA
[71] THE TORONTO-DOMINION BANK, CA
[22] 2022-10-03
[41] 2024-03-19
[30] US (17/947,226) 2022-09-19

---

[21] **3,183,291**
[13] A1
[51] **Int.Cl. B60Q 5/00 (2006.01)**
[25] EN
[54] **MANNER KNOCK HORN DEVICE FOR VEHICLE**
[54] **DISPOSITIF D~AVERTISSEUR SONORE COURTOIS POUR VEHICULE**
[72] KIM, TAEOAN, KR
[71] KIM, TAEOAN, KR
[22] 2022-11-29
[41] 2024-03-19
[30] KR (10-2022-0117760) 2022-09-19

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[21] **3,188,013**
[13] A1
[51] **Int.Cl. C08L 33/04 (2006.01) B33Y 10/00 (2015.01) B33Y 30/00 (2015.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01) B29C 64/124 (2017.01) C08K 5/17 (2006.01) C08K 5/50 (2006.01) C08K 5/5377 (2006.01)**
[25] EN
[54] **PHOTORESIN FORMULATIONS AND USE THEREOF FOR VOLUMETRIC ADDITIVE MANUFACTURING**
[54] **FORMULATIONS DE PHOTORESINE ET UTILISATION CONNEXE POUR LA FABRICATION ADDITIVE VOLUMETRIQUE**
[72] ZHANG, YUJIE, CA
[72] ORTH, ANTONY, CA
[72] WEBBER, DANIEL, CA
[72] SAMPSON, KATHLEEN, CA
[72] LACELLE, THOMAS, CA
[72] PAQUET, CHANTAL, CA
[72] HAAN, HENDRICK DE, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[22] 2023-01-30
[41] 2024-03-20
[30] US (63/408,239) 2022-09-20

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[21] **3,188,665**
[13] A1
[51] **Int.Cl. G06T 11/60 (2006.01) G06V 20/10 (2022.01) G06V 20/20 (2022.01) G06T 7/60 (2017.01)**
[25] EN
[54] **AUTOMATED GENERATION AND PRESENTATION OF VISUAL DATA ENHANCEMENTS ON CAMERA VIEW IMAGES CAPTURED IN A BUILDING**
[54] **GENERATION AUTOMATISEE ET PRESENTATION D~AMELIORATIONS DE DONNEES VISUELLES D~IMAGES DE CAMERA PRISES DANS UN BATIMENT**
[72] NARAYANA, MANJUNATH, US
[72] PENNER, ERIC M., US
[72] BOYADZHIEV, IVAYLO, US
[72] KANG, SING BING, US
[71] MFTB HOLDCO. INC., US
[22] 2023-02-06
[41] 2024-03-22
[30] US (17/950,865) 2022-09-22

[21] **3,191,591**
[13] A1
[51] **Int.Cl. A01K 97/06 (2006.01) A01K 97/00 (2006.01)**
[25] EN
[54] **STORAGE DEVICE FOR CRAWLER HARNESS FISHING SYSTEM**
[54] **DISPOSITIF DE RANGEMENT POUR UN SYSTEME DE PECHE AU HARNAIS DU DEVON BARBOTEUR**
[72] LYNCH, ROBERT E., US
[72] RICHARDSON, ROBERT J., US
[71] SCHUPAN & SONS, INC., US
[22] 2023-03-02
[41] 2024-03-21
[30] US (18/069,268) 2022-12-21
[30] US (63/376,478) 2022-09-21

---

[21] **3,193,480**
[13] A1
[51] **Int.Cl. H02H 9/04 (2006.01) H03K 17/687 (2006.01)**
[25] EN
[54] **ELECTRONIC DEVICE AND METHOD FOR PROTECTING EQUIPMENT FROM VOLTAGE SURGE DAMAGE**
[54] **DISPOSITIF ELECTRONIQUE ET METHODE POUR PROTEGER L~EQUIPEMENT CONTRE LES DOMMAGES DE SURTENSION**
[72] CHAN, YUAN CHEN, TW
[72] CHUANG, CHI-MING, TW
[71] BAMBOO DYNAMICS CORPORATION., LTD., TW
[22] 2023-03-16
[41] 2024-03-20
[30] US (63/408,111) 2022-09-20
[30] US (18/163,300) 2023-02-02

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[21] **3,195,245**
[13] A1
[51] **Int.Cl. C05B 17/00 (2006.01) A01N 57/10 (2006.01) A01N 59/26 (2006.01) A01P 21/00 (2006.01) C05F 11/00 (2006.01) C05G 3/00 (2020.01)**
[25] EN
[54] **A NUTRIENT COMPOSITION FOR INCREASING PLANT GROWTH AND CROP YIELD AND PROCESS FOR PREPARATION THEREOF**
[54] **COMPOSITION D~ELEMENT NUTRITIF POUR ACCROITRE LA CROISSANCE DES PLANTES ET LE RENDEMENT DE CULTURE, ET PROCEDE DE PREPARATION**
[72] CHAUDHRY, SUUNIL SUDHAKAR, IN
[72] CHAUDHRY, SUSSMIT SUNIL, US
[71] CHAUDHRY, SUUNIL SUDHAKAR, IN
[71] CHAUDHRY, SUSSMIT SUNIL, US
[22] 2023-04-05
[41] 2024-03-21
[30] IN (202221053991) 2022-09-21

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[21] **3,199,025**
[13] A1
[51] **Int.Cl. E04D 13/076 (2006.01)**
[25] EN
[54] **MODULAR ASSEMBLIES FOR GUTTER GUARD SYSTEMS WITH CUSTOMIZABLE MAIN BODIES AND SCREENS**
[54] **ASSEMBLAGES MODULAIRES POUR DES SYSTEMES DE PROTEGE-GOUTTIERE COMPRENANT DES CORPS PRINCIPAUX ET DES ECRANS**
[72] CROWELL, JASON ALAN, US
[72] GORI, MICHAEL, US
[71] LEAFFILTER NORTH, LLC, US
[22] 2023-05-08
[41] 2024-03-20
[30] US (18/051,165) 2022-10-31
[30] US (17/933,698) 2022-09-20

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[21] **3,206,976**
[13] A1
[51] **Int.Cl. B64D 5/00 (2006.01) B64U 20/40 (2023.01) B64U 70/20 (2023.01) B64D 27/00 (2006.01)**
[25] EN
[54] **VEHICLE, TRANSPORT SYSTEM (VARIANTS) AND METHOD OF MOVING VEHICLE**
[54] **VEHICULE, SYSTEME DE TRANSPORT (VARIANTS) ET METHODE DE DEPLACEMENT D~UN VEHICULE**
[72] ANDREEV, PAVEL RUSLANOVICH, RU
[71] ANDREEV, PAVEL RUSLANOVICH, RU
[22] 2023-07-18
[41] 2024-03-22
[30] RU (RU2022124960) 2022-09-22

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[21] **3,207,169**
[13] A1
[51] **Int.Cl. A01C 14/00 (2006.01)**
[25] EN
[54] **FURROW VISUALIZATION**
[54] **VISUALISATION DE SILLON**
[72] LICHTENWALNER, HOUSTIN L., JR, US
[72] FERREN, BRAN, US
[72] LARIVIERE, DON, US
[72] HUBNER, CARY S., US
[71] DEERE & COMPANY, US
[22] 2023-07-11
[41] 2024-03-21
[30] US (17/949,852) 2022-09-21

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[21] **3,207,227**
[13] A1
[51] **Int.Cl. B42D 15/00 (2006.01) A47G 33/00 (2006.01) A63H 33/16 (2006.01) B31D 5/04 (2017.01)**
[25] EN
[54] **POP-UP OBJECT WITH DOUBLE CANOPY**
[54] **OBJET DEPLIANT A DOUBLE AUVENT**
[72] LARSON, SETH, US
[71] AMERICAN GREETINGS CORPORATION, US
[22] 2023-07-21
[41] 2024-03-20
[30] US (17/948,529) 2022-09-20

[21] **3,207,872**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01)**
[25] EN
[54] **MANUAL ARTIFICIAL RESPIRATION BAG COMPRISING A VENTURI DEVICE**
[54] **SAC DE RESPIRATION ARTIFICIELLE MANUEL COMPRENANT UN DISPOSITIF VENTURI**
[72] DE BEAUFORT, ELOISE, FR
[72] LESIMPLE, ARNAUD, FR
[72] BROC, ALEXANDRE, FR
[72] ZADRA, DAVIDE, IT
[72] ALBERICI, LUCA, IT
[72] RICHARD, JEAN-CHRISTOPHE, FR
[71] AIR LIQUIDE MEDICAL SYSTEMS, FR
[71] AIR LIQUIDE MEDICAL SYSTEMS S.R.L., IT
[22] 2023-07-28
[41] 2024-03-19
[30] EP (EP22196394) 2022-09-19

[21] **3,208,637**
[13] A1
[51] **Int.Cl. G06N 3/006 (2023.01) G06F 16/901 (2019.01) G06F 16/9035 (2019.01) G06F 40/20 (2020.01) G06Q 50/00 (2024.01)**
[25] EN
[54] **SYSTEM, METHOD AND COMPUTER READABLE MEDIUM FOR INTERACTIONS BETWEEN AN EMPATHETIC PROFILE OF A DECEASED INDIVIDUAL AND A USER**
[54] **SYSTEME, METHODE ET SUPPORT LISIBLE PAR ORDINATEUR POUR DES INTERACTIONS ENTRE UN PROFIL EMPATHIQUE D'UNE PERSONNE DECEDEE ET UN UTILISATEUR**
[72] SERJEANTSON, KIRK, CA
[72] GIVENS, ROBERT, CA
[72] MORGAN, BOBBI-LYNN, CA
[72] SCANLAN, DAVID, CA
[72] SCANLAN, MICHAEL, CA
[72] SCANLAN, PAUL, CA
[71] ARBOR MEMORIAL INC., CA
[22] 2023-08-08
[41] 2024-03-20
[30] US (63/408,386) 2022-09-20

[21] **3,208,865**
[13] A1
[51] **Int.Cl. H02H 9/04 (2006.01)**
[25] EN
[54] **OVERVOLTAGE PROTECTION DEVICE MODULES**
[54] **MODULES DE DISPOSITIF DE PROTECTION CONTRE LES SURTENSIONS**
[72] PEPPAS, GEORGE, GR
[72] CHOROZOGLOU, ALEXIS, GR
[72] RAPTIS, PANAGIOTIS, GR
[72] FERMELIS, ELIAS, GR
[71] RIPD IP DEVELOPMENT LTD, CY
[22] 2023-08-10
[41] 2024-03-20
[30] US (17/933,757) 2022-09-20

[21] **3,209,017**
[13] A1
[51] **Int.Cl. H01F 3/10 (2006.01) H01F 3/04 (2006.01) H01F 27/26 (2006.01)**
[25] EN
[54] **HOLDING MECHANISMS FOR ELECTROMAGNETIC CORES**
[54] **MECANISMES DE RETENUE DE NOYAUX ELECTROMAGNETIQUES**
[72] SCOBIE, ANDREW JOHN, GB
[72] WAN, YIHONG, GB
[71] ENODA LIMITED, GB
[22] 2023-08-10
[41] 2024-03-23
[30] GB (GB2213879.6) 2022-09-23

[21] **3,209,195**
[13] A1
[51] **Int.Cl. A01C 7/18 (2006.01) A01C 7/06 (2006.01)**
[25] EN
[54] **AGITATOR DRIVE SYSTEM FOR A PRODUCT METERING SYSTEM**
[54] **SYSTEME D'ENTRAINEMENT D~AGITATEUR POUR UN DOSEUR DE PRODUIT**
[72] THOMPSON, DENNIS GEORGE, US
[71] CNH INDUSTRIAL CANADA, LTD., CA
[22] 2023-08-10
[41] 2024-03-19
[30] US (17/947,854) 2022-09-19

[21] **3,209,509**
[13] A1
[51] **Int.Cl. F16B 31/06 (2006.01) F16B 33/00 (2006.01) F16B 35/06 (2006.01) F16D 1/033 (2006.01) F16D 1/076 (2006.01)**
[25] EN
[54] **FASTENING SYSTEM**
[54] **SYSTEME D~ATTACHE**
[72] IVANKOVIC, MILOS, CA
[72] THERIAULT, GERARD, CA
[72] VENDITTI, ROBERT, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-08-09
[41] 2024-03-23
[30] US (17/951,835) 2022-09-23

[21] **3,209,709**
[13] A1
[51] **Int.Cl. A01C 7/20 (2006.01) A01B 63/00 (2006.01) F15B 15/00 (2006.01)**
[25] EN
[54] **SEEDER DEPTH CONTROL**
[54] **CONTROLE DE LA PROFONDEUR D~UN SEMOIR**
[72] HARMON, ANDREW W., US
[72] GRAHAM, WILLIAM DOUGLAS, US
[71] DEERE & COMPANY, US
[22] 2023-08-17
[41] 2024-03-21
[30] US (17/949,604) 2022-09-21

[21] **3,209,922**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **LOTTERY OFFERINGS DISPLAYED ON GAME PRESENTATION DEVICES IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **OFFRES DE LOTERIE AFFICHEES DANS DES DISPOSITIFS DE PRESENTATION DE JEU DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949519) 2022-09-21

[21] **3,209,955**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **CENTRAL DETERMINATION GAMING FOR GAME PRESENTATION DEVICES IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **JEUX A DETERMINATION CENTRALE POUR DES DISPOSITIFS DE PRESENTATION DE JEU DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949,510) 2022-09-21

[21] **3,209,959**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **PREDETERMINED GAME OUTCOMES DISPLAYED BY A GAME PRESENTATION DEVICE IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **RESULTATS DE JEU PREDETERMINES AFFICHES PAR UN DISPOSITIF DE PRESENTATION DE JEU DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949,497) 2022-09-21

[21] **3,209,965**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **LOTTERY OFFERINGS DISPLAYED ON ELECTRONIC GAMING MACHINES IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **OFFRES DE LOTERIE AFFICHEES DANS DES MACHINES DE JEU ELECTRONIQUES DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949,487) 2022-09-21

[21] **3,209,972**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **CENTRAL DETERMINATION GAMING FOR ELECTRONIC GAMING MACHINES IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **JEUX A DETERMINATION CENTRALE POUR DES MACHINES DE JEU ELECTRONIQUES DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949461) 2022-09-21

[21] **3,209,986**
[13] A1
[51] **Int.Cl. G07F 17/32 (2006.01) G07C 15/00 (2006.01)**
[25] EN
[54] **PREDETERMINED GAME OUTCOMES DISPLAYED BY AN ELECTRONIC GAMING MACHINE IN A NON-GAMING ESTABLISHMENT ENVIRONMENT**
[54] **RESULTATS DE JEU PREDETERMINES AFFICHES PAR UNE MACHINE DE JEU ELECTRONIQUE DANS UN ENVIRONNEMENT AUTRE QU~UNE MAISON DE JEU**
[72] BAERLOCHER, ANTHONY, US
[72] CACCIAPUOTI, LUIGI, US
[71] IGT, US
[22] 2023-08-22
[41] 2024-03-21
[30] US (17/949449) 2022-09-21

[21] **3,210,038**
[13] A1
[51] **Int.Cl. H03F 3/45 (2006.01)**
[25] EN
[54] **SIGNAL CONDITIONING IN A POSITION SENSING SYSTEM**
[54] **CONDITIONNEMENT DE SIGNAUX DANS UN SYSTEME DE DETECTION DE POSITION**
[72] KUMAR, DHANANJAY, IN
[72] SREEDHAR, SWATHIKA, IN
[71] HAMILTON SUNDSTRAND CORPORATION, US
[22] 2023-08-22
[41] 2024-03-19
[30] IN (202211053559) 2022-09-19

[21] **3,210,195**
[13] A1
[51] **Int.Cl. H02P 29/00 (2016.01) H02H 7/09 (2006.01) H03K 19/177 (2020.01) H03M 1/12 (2006.01)**
[25] EN
[54] **MOTOR DRIVE DIRECT CURRENT LINK VOLTAGE MEASUREMENT RESOLUTION IMPROVEMENT WITH FAULT DETECTION**
[54] **AMELIORATION DE LA RESOLUTION DES MESURES DE TENSION D~UNE LIAISON DE COURANT CONTINU D~ENTRAINEMENT MOTEUR AVEC DETECTION DES ANOMALIES**
[72] KALLURI, NAGESWARA RAO, IN
[72] SREEDHAR, SWATHIKA, IN
[72] AHMED, MAHTAB, IN
[72] RAMACHANDRA, RAGHAVENDRA, IN
[71] HAMILTON SUNDSTRAND CORPORATION, US
[22] 2023-08-24
[41] 2024-03-19
[30] IN (202211053560) 2022-09-19

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[21] **3,210,493**
[13] A1
[51] **Int.Cl. B64D 43/00 (2006.01) F02C 7/057 (2006.01)**
[25] EN
[54] **PASSIVELY ORIENTABLE PRESSURE PROBE**
[54] **SONDE DE PRESSION A ORIENTATION PASSIVE**
[72] DOUCET, FREDERIC, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-08-29
[41] 2024-03-19
[30] US (17/933,134) 2022-09-19

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[21] **3,211,129**
[13] A1
[51] **Int.Cl. H04L 12/28 (2006.01) H04L 49/1515 (2022.01) H04J 14/02 (2006.01) H04Q 11/00 (2006.01)**
[25] EN
[54] **EXPANDED SINGLE-HOP CLOS STAR NETWORK FOR A DATACENTER OF UNIVERSIAL COVERAGE AND EXHABITS-PER-SECOND THROUGHPUT**
[54] **RESEAU EN ETOILE CLOS A UN SEUL BOND ELARGI POUR UN CENTRE DE DONNEES DE COUVERTURE UNIVERSELLE ET DE DEBIT EN EXABITS PAR SECONDE**
[72] BESHAI, MAGED E., CA
[71] BESHAI, MAGED E., CA
[22] 2023-09-05
[41] 2024-03-22
[30] US (17/951,087) 2022-09-22

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[21] **3,211,426**
[13] A1
[51] **Int.Cl. G07C 9/32 (2020.01) G06F 21/33 (2013.01) G06F 21/64 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ACCESS CONTROL**
[54] **SYSTEMES ET METHODES POUR LE CONTROLE D'ACCES**
[72] TONG, GARY SIU GWAN, AU
[71] SE.QR ADVANCEMENTS PTY LTD, AU
[22] 2023-09-07
[41] 2024-03-23
[30] AU (2022902758) 2022-09-23

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[21] **3,211,577**
[13] A1
[51] **Int.Cl. B25C 1/06 (2006.01)**
[25] EN
[54] **NAIL GUN**
[54] **CLOUEUSE**
[72] YE, JUNJIE, CN
[72] JIANG, JIE, CN
[72] LAN, RAN, CN
[71] NANJING CHERVON INDUSTRY CO., LTD., CN
[22] 2023-09-07
[41] 2024-03-23
[30] CN (202211161524.X) 2022-09-23
[30] CN (202310856727.9) 2023-07-12
[30] CN (202310855579.9) 2023-07-12
[30] US (18/452,629) 2023-08-21

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[21] **3,211,937**
[13] A1
[51] **Int.Cl. G06Q 40/03 (2023.01) G06N 20/00 (2019.01)**
[25] EN
[54] **SYSTEM, METHOD AND APPARATUS FOR OPTIMIZATION OF FINANCING PROGRAMS**
[54] **SYSTEME, METHODE ET APPAREIL POUR L~OPTIMISATION DE PROGRAMMES DE FINANCEMENT**
[72] LEOPUTERA, HANIF, US
[72] SUMATHIPALA, ADRIEL, US
[72] CHEN, NELSON, US
[72] LIN, TING CHIH, US
[72] GUPTA, NILOY, US
[72] SWIDERSKI, WOJCIECH PIOTR, US
[72] KORUKONDA, RAGHAVENDRA ABHINAY, US
[72] JOSEPH, ISAAC, US
[71] AFFIRM, INC., US
[22] 2023-09-11
[41] 2024-03-22
[30] US (17/950,527) 2022-09-22

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[21] **3,212,201**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR CALIBRATING FORCE SENSORS**
[54] **SYSTEME ET METHODE D~ETALONNAGE DE CAPTEURS DE FORCE**
[72] GUPTA, SANJAY, CA
[72] BLADES, SAMUEL CARL WILLIAM, CA
[71] ORPYX MEDICAL TECHNOLOGIES INC., CA
[22] 2023-09-13
[41] 2024-03-22
[30] US (63/408,917) 2022-09-22

[21] **3,212,221**
[13] A1
[51] **Int.Cl. A47B 31/02 (2006.01) A47J 39/00 (2006.01)**
[25] FR
[54] **METHOD FOR MANAGING THE WARMING-UP OF MEAL TRAYS PLACED INSIDE A TROLLEY, INSTALLATION AND TROLLEY FOR IMPLEMENTING THIS METHOD**
[54] **PROCEDE POUR GERER LA REMISE EN TEMPERATURE DE PLATEAUX-REPAS INSERES A L'INTERIEUR D'UN CHARIOT, INSTALLATION ET CHARIOT POUR LA MISE EN OEUVRE DE CE PROCEDE**
[72] BROSSAT, JEROME, FR
[72] LAUZERAL, SYLVAIN, FR
[71] ELECTRO CALORIQUE, FR
[22] 2023-09-13
[41] 2024-03-22
[30] FR (FR2209580) 2022-09-22

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[21] **3,212,270**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/055 (2006.01)**
[25] EN
[54] **HEAD COIL SYSTEM AND METHODS**
[54] **SYSTEME DE BOBINE PRINCIPALE ET METHODES**
[72] THEVATHASAN, GILBERT, CA
[72] LAU, WILLIAM WAI-LEUNG, CA
[72] PANTHER, ALEX GYLES, CA
[71] SYNAPTIVE MEDICAL INC., CA
[22] 2023-09-12
[41] 2024-03-19
[30] US (63/405,594) 2022-09-19

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[21] **3,212,338**
[13] A1
[51] **Int.Cl. C25D 5/02 (2006.01) C25D 17/00 (2006.01)**
[25] EN
[54] **ELECTROPLATING SHIELD DEVICE**
[54] **DISPOSITIF D~ECRAN D~ELECTRODEPOSITION**
[72] WIGGINS, CHRISTIAN, US
[72] PIASCIK, JAMES, US
[72] MINTZER, JOSEPH W., III, US
[71] HONEYWELL INTERNATIONAL INC., US
[22] 2023-09-13
[41] 2024-03-21
[30] US (17/934,121) 2022-09-21

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[21] **3,212,393**
[13] A1
[51] **Int.Cl. B25J 9/02 (2006.01) B25J 9/00 (2006.01) B65G 1/04 (2006.01)**
[25] EN
[54] **CONVEYING DEVICE**
[54] **DISPOSITIF DE CONVOYAGE**
[72] SCHWANDT, MATTHIAS, DE
[72] BAUERLE, JOHANNES, DE
[72] GRAN, SEBASTIAN, DE
[71] SYNTEGON TECHNOLOGY GMBH, DE
[22] 2023-09-13
[41] 2024-03-20
[30] DE (10 2022 124 050.9) 2022-09-20

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[21] **3,212,474**
[13] A1
[51] **Int.Cl. B64D 27/12 (2006.01) F02F 7/00 (2006.01) F16M 1/04 (2006.01)**
[25] EN
[54] **TURBINE EXHAUST CASE WITH SLOTTED STRUTS**
[54] **BUSE D'ECHAPPEMENT DE TURBINE COMPRENANT DES MATS A FENTES**
[72] AKCAYOZ, ERAY, CA
[72] CUNNINGHAM, MARK, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-09-13
[41] 2024-03-21
[30] US (17/934,043) 2022-09-21

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[21] **3,212,600**
[13] A1
[51] **Int.Cl. G06F 16/903 (2019.01) G06F 16/901 (2019.01) G06F 16/904 (2019.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRANSFERRABLE DATA TRANSFORMATIONS**
[54] **SYSTEME ET METHODE POUR DES TRANSFORMATIONS DE DONNEES TRANSFERABLES**
[72] CAMPBELL, ALEXANDER, US
[72] JOS, NEVILLE, US
[71] ROSE TECHNOLOGY INCORPORATED, US
[22] 2023-09-15
[41] 2024-03-21
[30] US (17/949,993) 2022-09-21

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[21] **3,212,708**
[13] A1
[51] **Int.Cl. B64D 15/04 (2006.01) F16K 31/06 (2006.01)**
[25] EN
[54] **PRESSURE REGULATION SYSTEMS AND VALVES**
[54] **SYSTEMES ET SOUPAPES DE REGULATION DE PRESSION**
[72] CAPPO, MATTEO, IT
[72] MORNACCHI, ANDREA, IT
[72] QUAGLIA, ENRICO, IT
[71] MICROTECNICA S.R.L., IT
[22] 2023-09-15
[41] 2024-03-23
[30] EP (22197580.8) 2022-09-23

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[21] **3,212,717**
[13] A1
[51] **Int.Cl. A63F 9/08 (2006.01) A63F 9/10 (2006.01) A63H 33/00 (2006.01)**
[25] EN
[54] **ANIMATED PUZZLE**
[54] **CASSE-TETE ANIME**
[72] LITWIN, BRADLEY N., US
[72] DREYER, ROGER, US
[71] LITWIN, BRADLEY N., US
[71] DREYER, ROGER, US
[22] 2023-09-18
[41] 2024-03-18
[30] US (63/376,100) 2022-09-18

[21] **3,212,727**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) B81B 1/00 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01) C12N 1/00 (2006.01) C12N 5/00 (2006.01) G09B 23/28 (2006.01) C12M 1/22 (2006.01)**
[25] EN
[54] **BASE ELEMENT OF A MULTI-CHAMBER BIOCHIP, PRODUCTION OF THE MULTI-CHAMBER BIOCHIP, AND USE THEREOF FOR ESTABLISHING ORGAN AND DISEASE MODELS AND SUBSTANCE TESTS**
[54] **ELEMENT DE BASE D~UNE BIOPUCE MULTICHAMBRE, PRODUCTION DE LA BIOPUCE MULTICHAMBRE ET UTILISATION CONNEXE POUR ETABLIR DES MODELES D~ORGANE ET DE MALADIE ET DES TESTS DE DEPISTAGE**
[72] ABDO, NADER, DE
[72] RENNERT, KNUT, DE
[72] RAASCH, MARTIN, DE
[71] DYNAMIC42 GMBH, DE
[22] 2023-09-15
[41] 2024-03-18
[30] DE (10 2022 123 877.6) 2022-09-18

[21] **3,212,855**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR DETECTING 3D POSES FROM 2D IMAGES AND EDITING 3D POSES**
[54] **METHODES ET SYSTEMES POUR DETECTER DES POSES 3D A PARTIR D~IMAGES 2D ET MODIFIER DES POSES 3D**
[72] HE, KAICHUAN, US
[72] STEPIEN, JAKUB, US
[72] LI, ZENAN, US
[72] KABZA, GRZEGORZ, US
[72] HULIST, MARCIN, US
[72] KORCZ, MIKOLAJ, US
[71] DEEPMOTION, INC., US
[22] 2023-09-18
[41] 2024-03-19
[30] US (18/244,142) 2023-09-08
[30] US (63/408,037) 2022-09-19

[21] **3,212,864**
[13] A1
[51] **Int.Cl. A47J 37/06 (2006.01) A47J 36/16 (2006.01)**
[25] EN
[54] **AIR FRYER WITH SMOKING AGENT HOLDER**
[54] **FRITEUSE A AIR CHAUD COMPORTANT UN SUPPORT POUR AGENT DE FUMAGE**
[72] LAM, U FUNG, HK
[71] LAM, U FUNG, HK
[22] 2023-09-18
[41] 2024-03-19
[30] HK (32022060585.3) 2022-09-19

[21] **3,212,867**
[13] A1
[51] **Int.Cl. A47B 96/00 (2006.01) A47B 67/00 (2006.01) A47B 81/00 (2006.01)**
[25] EN
[54] **LIGATURE RESISTANT CABINET**
[54] **ARMOIRE RESISTANTE AUX LIGATURES**
[72] BOELTL, DARRYL M., US
[71] ACORN ENGINEERING COMPANY, US
[22] 2023-09-18
[41] 2024-03-20
[30] US (17/948,526) 2022-09-20

[21] **3,212,912**
[13] A1
[51] **Int.Cl. E05F 15/73 (2015.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR DOOR CONTROL**
[54] **APPAREIL ET METHODE POUR LE CONTROLE DE PORTE**
[72] WU, ZHIZHUO, US
[72] CARROLL, RYAN, US
[71] CORNELLCOOKSON, LLC, US
[22] 2023-09-19
[41] 2024-03-19
[30] US (17/947,656) 2022-09-19

[21] **3,212,913**
[13] A1
[51] **Int.Cl. A01K 13/00 (2006.01) A01K 3/00 (2006.01) A01K 5/00 (2006.01) B68C 5/00 (2006.01)**
[25] EN
[54] **OPEN-DESIGN HORSE BOOT**
[54] **BOTTINE DE CHEVAL DE CONCEPTION OUVERTE**
[72] CARROLL, ANDREW G., US
[71] CARROLL, ANDREW G., US
[22] 2023-09-18
[41] 2024-03-19
[30] US (63/407,818) 2022-09-19
[30] US (63/485,967) 2023-02-20
[30] US (18/466,332) 2023-09-13

[21] **3,213,041**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01)**
[25] EN
[54] **ENCRYPTION KEY MANAGEMENT IN MESH NETWORKS**
[54] **GESTION DES CLES DE CHIFFREMENT DANS LES RESEAUX MAILLES**
[72] PARKKILA, TOMMI PETTERI, US
[72] KRISHNABHAT, DATHATHREYA, US
[72] ROCKEY, MATTHEW, US
[71] ITRON, INC., US
[22] 2023-09-19
[41] 2024-03-21
[30] US (17/934,072) 2022-09-21

[21] **3,213,060**
[13] A1
[51] **Int.Cl. H04L 9/16 (2006.01) H04W 12/04 (2021.01) H04W 84/18 (2009.01)**
[25] EN
[54] **ENCRYPTION KEY MANAGEMENT IN MESH NETWORKS**
[54] **GESTION DES CLES DE CHIFFREMENT DANS LES RESEAUX MAILLES**
[72] PARKKILA, TOMMI PETTERI, US
[72] KRISHNABHAT, DATHATHREYA, US
[72] ROCKEY, MATTHEW, US
[71] ITRON, INC., US
[22] 2023-09-19
[41] 2024-03-21
[30] US (17/934,074) 2022-09-21

[21] **3,213,130**
[13] A1
[51] **Int.Cl. H01M 8/0202 (2016.01) C25B 9/65 (2021.01) B22F 3/16 (2006.01) B22F 7/06 (2006.01)**
[25] EN
[54] **METHOD OF FORMING AN INTERCONNECT COATING FOR AN ELECTROCHEMICAL DEVICE STACK USING LASER SINTERING**
[54] **METHODE DE FORMATION D~UN REVETEMENT D~INTERCONNEXION POUR UN ASSEMBLAGE DE DISPOSITIFS ELECTROCHIMIQUES A L~AIDE DU FRITTAGE AU LASER**
[72] BYRD, ADAM, US
[72] LU, ZIGUI, US
[72] XIAO, GUOLIANG, US
[72] ARMSTRONG, TAD, US
[72] HERCHEN, HARALD, US
[72] SCHMAUSS, TRAVIS, US
[72] PAN, KEJI, US
[71] BLOOM ENERGY CORPORATION, US
[22] 2023-09-19
[41] 2024-03-21
[30] US (63/376,521) 2022-09-21

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[21] **3,213,159**
[13] A1
[51] **Int.Cl. C07D 265/30 (2006.01) A61K 9/48 (2006.01) A61K 31/185 (2006.01) A61K 31/194 (2006.01) A61K 31/5375 (2006.01) A61P 25/00 (2006.01) C07C 57/15 (2006.01) C07C 59/255 (2006.01) C07C 59/265 (2006.01) C07C 309/35 (2006.01)**
[25] EN
[54] **SALTS OF VILOXAZINE**
[54] **SELS DE VILOXAZINE**
[72] SOUZA, FABIO E. S., CA
[72] KARADEOLIAN, AVEDIS, CA
[72] REY, ALLAN W., CA
[71] APOTEX INC., CA
[22] 2023-09-20
[41] 2024-03-23
[30] US (63/409,255) 2022-09-23

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[21] **3,213,172**
[13] A1
[51] **Int.Cl. B60P 3/325 (2006.01) A47C 4/00 (2006.01) A47C 17/04 (2006.01) A47C 17/64 (2006.01) B60P 3/36 (2006.01) B60P 3/39 (2006.01)**
[25] EN
[54] **COMBINATION TABLE AND BED FIXTURE FOR RECREATIONAL VEHICLES**
[54] **TABLE ET LIT COMBINES POUR VEHICULES RECREATIFS**
[72] MASON, RYAN, US
[71] MORRYDE INTERNATIONAL, INC., US
[22] 2023-09-20
[41] 2024-03-23
[30] US (63/409,547) 2022-09-23

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[21] **3,213,188**
[13] A1
[51] **Int.Cl. B62B 7/06 (2006.01) A47D 13/04 (2006.01) A61G 5/08 (2006.01)**
[25] EN
[54] **ONE-HAND FOLDING STROLLER**
[54] **POUSSETTE PLIABLE A UNE MAIN**
[72] STACEY, ANGELA, US
[72] YU, HUANG KAI, US
[72] WEN, YANG PO, US
[71] BRITAX CHILD SAFETY, INC., US
[22] 2023-09-19
[41] 2024-03-23
[30] US (63/409,337) 2022-09-23

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[21] **3,213,201**
[13] A1
[51] **Int.Cl. B23K 9/095 (2006.01)**
[25] EN
[54] **WELDING SYSTEMS AND METHODS EMPLOYING A DEDICATED POWER AND COMMUNICATION CABLE**
[54] **SYSTEMES DE SOUDAGE ET METHODES UTILISANT UN CABLE D~ALIMENTATION ET DE COMMUNICATION RESERVE**
[72] OTT, BRIAN L., US
[72] SCHARTNER, QUINN W., US
[71] ILLINOIS TOOL WORKS INC., US
[22] 2023-09-20
[41] 2024-03-23
[30] US (63/409,250) 2022-09-23
[30] US (18/468,860) 2023-09-18

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[21] **3,213,212**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 6/00 (2024.01)**
[25] EN
[54] **LASER SYSTEM AND METHOD FOR DETECTING AND PROCESSING INFORMATION**
[54] **SYSTEME LASER ET METHODE POUR DETECTER ET TRAITER DES DONNEES**
[72] VINOKOUR, VALERII, CH
[72] SOBOL, EMIL, CH
[71] TERRA QUANTUM AG, CH
[22] 2023-09-20
[41] 2024-03-23
[30] EP (22197529.5) 2022-09-23

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[21] **3,213,218**
[13] A1
[51] **Int.Cl. B62D 55/08 (2006.01) B29D 30/02 (2006.01) B60B 3/10 (2006.01) B60C 7/00 (2006.01) B62D 55/084 (2006.01) B62D 55/14 (2006.01)**
[25] EN
[54] **RESILIENT WHEEL WITH LOW-FRICTION AND WEAR RESISTANT SIDEWALL AND TRACK SYSTEM HAVING SAME**
[54] **ROUE RESILIENTE COMPRENANT UNE PAROI LATERALE A FAIBLE FROTTEMENT ET RESISTANTE A L~USURE, ET SYSTEME DE CHENILLE COMPRENANT LA ROUE**
[72] AUBIN-MARCHAND, JEREMIE, CA
[72] NADEAU, MARC, CA
[71] SOUCY INTERNATIONAL INC., CA
[22] 2023-09-20
[41] 2024-03-21
[30] US (63/408,776) 2022-09-21
[30] US (63/420,276) 2022-10-28

[21] **3,213,220**
[13] A1
[51] **Int.Cl. A61F 9/008 (2006.01) A61F 9/007 (2006.01) A61F 9/01 (2006.01)**
[25] EN
[54] **LASER SYSTEM AND METHOD FOR DETECTING AND PROCESSING INFORMATION**
[54] **SYSTEME LASER ET METHODE POUR DETECTER ET TRAITER DES DONNEES**
[72] SOBOL, EMIL, CH
[72] VINOKOUR, VALERII, CH
[71] TERRA QUANTUM AG, CH
[22] 2023-09-20
[41] 2024-03-23
[30] EP (22197529.5) 2022-09-23
[30] EP (22208402.2) 2022-11-18
[30] EP (23172062.4) 2023-05-08

[21] **3,213,268**
[13] A1
[51] **Int.Cl. H01R 13/193 (2006.01) B60L 53/16 (2019.01) H01R 13/502 (2006.01) H01R 13/622 (2006.01) H01R 13/639 (2006.01) H01R 24/00 (2011.01)**
[25] EN
[54] **ELECTRICAL CONNECTOR**
[54] **CONNECTEUR ELECTRIQUE**
[72] CASSAR, THIERRY, FR
[72] DELAIRE, SIMON, FR
[72] QUEVA, SEBASTIEN, FR
[72] BRUNET, MARTIN, FR
[72] SOUFFLET, SAMUEL, FR
[71] CONNECTEURS ELECTRIQUES DEUTSCH, FR
[22] 2023-09-19
[41] 2024-03-22
[30] EP (22306395.9) 2022-09-22

[21] **3,213,269**
[13] A1
[51] **Int.Cl. F02C 9/28 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR DETERMINING GAS TURBINE ENGINE TEMPERATURES**
[54] **SYSTEMES ET METHODES POUR DETERMINER LES TEMPERATURES D~UNE TURBINE A GAZ**
[72] DEMERS, FRANCIS, CA
[72] PERSECHINO, ALESANDRO M., CA
[72] CRAINIC, CRISTINA, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-09-19
[41] 2024-03-19
[30] US (17/947,863) 2022-09-19

[21] **3,213,347**
[13] A1
[25] EN
[54] **DIRECT WELLHEAD MEASUREMENT SKID AND RELATED USES AND METHODS OF OPERATION**
[54] **PLATEFORME DE MESURE DE TETE DE PUITS DIRECTE, UTILISATIONS CONNEXES ET METHODES D~EXPLOITATION**
[72] DAWSON, TREVOR, CA
[72] HILL, CHAD, CA
[71] SPARTAN CONTROLS LTD., CA
[22] 2023-09-20
[41] 2024-03-20
[30] US (63/408,260) 2022-09-20

[21] **3,213,404**
[13] A1
[51] **Int.Cl. G01N 24/10 (2006.01) G01N 1/28 (2006.01) G01R 33/60 (2006.01) G01R 35/00 (2006.01)**
[25] EN
[54] **ESR ASSESSMENT OF ASPHALTENE CONTAINING HYDROCARBON STREAMS TO MONITOR ASPHALTENE CONTROL CHEMICAL APPLICATION PERFORMANCE**
[54] **EVALUATION DE LA RESONANCE PARAMAGNETIQUE ELECTRONIQUE DES FLUX D~HYDROCARBURES CONTENANT DE L~ASPHALTENE POUR SURVEILLER LE RENDEMENT D~APPLICATION DE LA SOLUTION CHIMIQUE DE CONTROLE D~ASPHALTENE**
[72] RUSSELL, CHRISTOPHER ALEXANDER, US
[72] SHARMA, PRITESH SHIVSHANKAR, US
[72] NEILSON, ANDREW ROBERT, US
[71] CHAMPIONX LLC, US
[22] 2023-09-20
[41] 2024-03-20
[30] US (63/376,396) 2022-09-20

[21] **3,213,431**
[13] A1
[51] **Int.Cl. A61N 5/067 (2006.01) A61B 5/00 (2006.01)**
[25] EN
[54] **LASER SYSTEM AND METHOD FOR DETECTING AND PROCESSING INFORMATION**
[54] **SYSTEME LASER ET METHODE POUR DETECTER ET TRAITER DES DONNEES**
[72] SOBOL, EMIL, CH
[72] VINOKOUR, VALERII, CH
[71] TERRA QUANTUM AG, CH
[22] 2023-09-20
[41] 2024-03-23
[30] EP (22197529.5) 2022-09-23
[30] EP (22208402.2) 2022-11-18

[21] **3,213,454**
[13] A1
[51] **Int.Cl. F24F 13/28 (2006.01) F24F 8/108 (2021.01) B01D 46/42 (2006.01)**
[25] EN
[54] **FILTER EXTENDER AND FILTER FOR MATING WITH SAME**
[54] **RALLONGE DE FILTRE ET FILTRE CONCU POUR S~ACCOUPLER A LA RALLONGE**
[72] STILLO, ANDREW, US
[72] GORMAN, JOSEPH JOHN, US
[72] PETROGLIA, MICHAEL JOSEPH, US
[72] SIENKIEWICZ, ADAM, US
[71] CAMFIL VENTURES AB, SE
[22] 2023-09-20
[41] 2024-03-23
[30] US (63/409,512) 2022-09-23

[21] **3,213,462**
[13] A1
[51] **Int.Cl. E04F 19/02 (2006.01) B29C 48/16 (2019.01)**
[25] EN
[54] **TRANSITION MOLDING WITH FLEXIBLE HINGES**
[54] **MOULURES DE TRANSITION A CHARNIERES FLEXIBLES**
[72] BREMER, WILLIAM, US
[72] BUSER, NICHOLAS D., US
[72] NORRIS, CHRISTOPHER KETIBIAN, US
[71] ZAMMA CORPORATION, INC., US
[22] 2023-09-20
[41] 2024-03-21
[30] US (63/376,514) 2022-09-21

[21] **3,213,468**
[13] A1
[25] EN
[54] **MAGNETIC CURRENT SENSOR, HYBRID CURRENT SENSOR COMPRISING SUCH A MAGNETIC CURRENT SENSOR, AND CIRCUIT BREAKER COMPRISING SUCH A HYBRID CURRENT SENSOR**
[54] **CAPTEUR DE COURANT MAGNETIQUE, CAPTEUR DE COURANT HYBRIDE CONTENANT UN TEL CAPTEUR DE COURANT MAGNETIQUE ET COUPE-CIRCUIT CONTENANT UN TEL CAPTEUR DE COURANT HYBRIDE**
[72] LOGLISCI, DAVID, FR
[71] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
[22] 2023-09-20
[41] 2024-03-20
[30] FR (2209497) 2022-09-20

[21] **3,213,472**
[13] A1
[51] **Int.Cl. F02K 1/06 (2006.01) F01N 13/00 (2010.01) B64D 33/04 (2006.01) F01N 3/00 (2006.01) F02K 1/30 (2006.01) F02K 1/40 (2006.01) F02K 1/78 (2006.01)**
[25] EN
[54] **EXHAUST NOZZLE ASSEMBLY FOR AN AIRCRAFT PROPULSION SYSTEM**
[54] **ASSEMBLAGE DE TUYERE D'EJECTION DES GAZ POUR UN SYSTEME DE PROPULSION D~AERONEF**
[72] LABRECQUE, MICHEL, CA
[72] NGUYEN, KEVIN, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-09-20
[41] 2024-03-20
[30] US (17/948,870) 2022-09-20

[21] **3,213,477**
[13] A1
[51] **Int.Cl. H01H 33/53 (2006.01) H01H 33/02 (2006.01)**
[25] EN
[54] **NON-ELECTRICAL DEVICE FOR REPLACING A CURRENT SENSOR IN AN ARC-EXTINGUISHING CHAMBER OF A SWITCH-DISCONNECTOR, AND A SWITCH-DISCONNECTOR COMPRISING SUCH A NON-ELECTRICAL DEVICE**
[54] **DISPOSITIF NON ELECTRIQUE POUR REMPLACER UN CAPTEUR DE COURANT DANS UNE CHAMBRE D~EXTINCTION D~ARC D~UN INTERRUPTEUR-SECTIONNEUR, ET INTERRUPTEUR-SECTIONNEUR COMPRENANT UN TEL DISPOSITIF NON ELECTRIQUE**
[72] LOGLISCI, DAVID, FR
[72] BRASME, FREDERIC, FR
[71] SCHNEIDER ELECTRIC INDUSTRIES SAS, FR
[22] 2023-09-20
[41] 2024-03-20
[30] FR (2209492) 2022-09-20

[21] **3,213,484**
[13] A1
[25] EN
[54] **MAGNITUDE SYMBOL DETERMINATION FOR ENCODING AND DECODING**
[54] **DETERMINATION DU SYMBOLE DE MAGNITUDE POUR LE CODAGE ET LE DECODAGE**
[72] FILIPPOV, ALEXEY KONSTANTINOVICH, US
[72] RUFITSKIY, VASILY ALEXEEVICH, US
[72] DINAN, ESMAEL HEJAZI, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-20
[41] 2024-03-20
[30] US (63/408,137) 2022-09-20

[21] **3,213,507**
[13] A1
[51] **Int.Cl. H04W 36/30 (2009.01) H04W 36/38 (2009.01)**
[25] EN
[54] **PRIMARY CELL CHANGING TRIGGERED BY LAYER 1 AND 2 SIGNALING**
[54] **CHANGEMENT DE PILE PRIMAIRE DECLENCHE PAR DES SIGNAUX DE COUCHES 1 ET 2**
[72] ZHOU, HUA, US
[72] PARK, KYUNGMIN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] CIRIK, ALI CAGATAY, US
[72] JEON, HYOUNGSUK, US
[72] KIM, TAEHUN, US
[72] CHUN, SUNGDUCK, US
[72] PRASAD, GAUTHAM, US
[72] XU, JIAN, US
[72] XU, KAI, US
[72] DASHTAKI, MOHAMMAD GHADIR KHOSHKHOLGH, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-20
[41] 2024-03-20
[30] US (63/408,203) 2022-09-20

[21] **3,213,553**
[13] A1
[51] **Int.Cl. E04F 13/21 (2006.01)**
[25] EN
[54] **DUAL-SIDED MOUNTING BRACKET**
[54] **SUPPORT DE MONTAGE A DEUX COTES**
[72] LOPEZ, ROBERT, US
[71] HOHMANN & BARNARD, INC., US
[22] 2023-09-21
[41] 2024-03-21
[30] US (63/408635) 2022-09-21
[30] US (18/470040) 2023-09-19

[21] **3,213,559**
[13] A1
[51] **Int.Cl. C08G 63/78 (2006.01) C08G 63/20 (2006.01) C08G 63/83 (2006.01) C08G 63/85 (2006.01) C08G 63/86 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING BIODEGRADABLE POLYESTER AND BIODEGRADABLE POLYESTER PREPARED THEREBY**
[54] **PROCEDE DE PREPARATION DE POLYESTER BIODEGRADABLE ET POLYESTER BIODEGRADABLE AINSI PREPARE**
[72] KIM, IN HO, KR
[72] LEE, DOHOON, KR
[72] KIM, WANKEUN, KR
[71] HANWHA TOTALENERGIES PETROCHEMICAL CO., LTD., KR
[22] 2023-09-21
[41] 2024-03-22
[30] KR (10-2022-0119728) 2022-09-22

[21] **3,213,562**
[13] A1
[51] **Int.Cl. A63B 60/56 (2015.01) A45C 5/14 (2006.01)**
[25] EN
[54] **STORAGE BAG**
[54] **SAC DE RANGEMENT**
[72] HACKING, ANDREW, DE
[71] LYNXSPORT GMBH, DE
[22] 2023-09-20
[41] 2024-03-20
[30] DE (20 2022 105 303.0) 2022-09-20
[30] US (18/085,870) 2022-12-21

[21] **3,213,644**
[13] A1
[51] **Int.Cl. H04L 65/612 (2022.01) H04L 65/613 (2022.01) H04L 65/65 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REDUCED LATENCY STREAMING**
[54] **SYSTEMES ET METHODES DE DIFFUSION A LATENCE REDUITE**
[72] FLIAM, RICHARD, US
[72] ZACHMAN, CORY, US
[71] MK SYSTEMS USA INC., US
[22] 2023-09-21
[41] 2024-03-22
[30] US (63/408,949) 2022-09-22

[21] **3,213,663**
[13] A1
[51] **Int.Cl. H04B 7/15 (2006.01) H01P 1/38 (2006.01) H03H 17/02 (2006.01) H04L 5/22 (2006.01)**
[25] EN
[54] **TIME DIVISION DUPLEX (TDD) NETWORK REPEATER**
[54] **REPETEUR DE RESEAU A DUPLEXAGE PAR REPARTITION DANS LE TEMPS (DRT)**
[72] ASHWORTH, CHRISTOPHER KEN, US
[72] ANDERSON, DALE ROBERT, US
[71] WILSON ELECTRONICS, LLC, US
[22] 2023-09-22
[41] 2024-03-23
[30] US (63/409,552) 2022-09-23

[21] **3,213,668**
[13] A1
[51] **Int.Cl. H04B 7/155 (2006.01) H04B 7/0413 (2017.01) H04L 5/00 (2006.01)**
[25] EN
[54] **DUAL PATH SWITCHABLE REPEATER**
[54] **REPETEUR COMMUTABLE A DEUX CIRCUITS**
[72] FARISS, STEPHEN TODD, US
[72] ANDERSON, DALE ROBERT, US
[72] ASHWORTH, CHRISTOPHER KEN, US
[71] WILSON ELECTRONICS, LLC, US
[22] 2023-09-22
[41] 2024-03-23
[30] US (63/409,577) 2022-09-23

[21] **3,213,671**
[13] A1
[51] **Int.Cl. G16H 20/70 (2018.01) A61B 5/16 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR INTERACTIVE DELIVERY OF DIGITAL CONTENT RESPONSIVE TO EMOTIONAL STATE**
[54] **METHODES ET SYSTEMES POUR LA DISTRIBUTION INTERACTIVE DE CONTENU NUMERIQUE EN REPONSE A UN ETAT EMOTIONNEL**
[72] DONOHUE, MARY, CA
[72] DEMELO, STEVE, CA
[71] THE DIGITAL WELLNESS CENTER INC., CA
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/408,956) 2022-09-22

[21] **3,213,696**
[13] A1
[25] EN
[54] **LOADING DOCK DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION POUR QUAI DE CHARGEMENT**
[72] SIMPSON, ANTHONY BRIAN, US
[71] TOYOTA MATERIAL HANDLING, INC., US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/376,681) 2022-09-22

[21] **3,213,714**
[13] A1
[51] **Int.Cl. G01N 1/28 (2006.01)**
[25] EN
[54] **FECAL GRINDER ASSEMBLIES, FECAL SYRINGE ASSEMBLIES, FECAL MIXERS, AND METHODS OF USING SAME**
[54] **ASSEMBLAGES DE BROYEUR FECAL, ASSEMBLAGES DE SERINGUE FECALE, MALAXEURS FECAUX ET METHODES D~UTILISATION**
[72] DUMONT, MARK, US
[72] LEFFERS, CHASE, US
[72] LEAVITT, ANNE, US
[71] IDEXX LABORATORIES, INC., US
[22] 2023-09-22
[41] 2024-03-23
[30] US (63/409,392) 2022-09-23

[21] **3,213,719**
[13] A1
[51] **Int.Cl. C02F 3/00 (2006.01)**
[25] EN
[54] **WASTE WATER TREATMENT SYSTEM**
[54] **SYSTEME DE TRAITEMENT DES EAUX USEES**
[72] SKOROBOGATOV, ANTON, CA
[72] MASSIG, JENNIFER CHRISTINE, CA
[71] MAGNA ENGINEERING SERVICES INC., CA
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,192) 2022-09-22

[21] **3,213,749**
[13] A1
[51] **Int.Cl. G06V 10/74 (2022.01) G06V 10/10 (2022.01) G06V 10/40 (2022.01) G06V 10/774 (2022.01) G06V 20/00 (2022.01)**
[25] EN
[54] **UNIVERSAL VISUAL CORRESPONDENCE IMAGING SYSTEM AND METHOD**
[54] **SYSTEME ET METHODE D~IMAGERIE A CORRESPONDANCE VISUELLE UNIVERSELLE**
[72] JEONG, RAE CHAN, CA
[71] LAPLACE ROBOTICS INC., CA
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,048) 2022-09-22

[21] **3,213,773**
[13] A1
[25] EN
[54] **METHODS AND SYSTEMS FOR PACKAGING AND SENDING CONTENT**
[54] **METHODES ET SYSTEMES POUR GROUPER ET ENVOYER DU CONTENU**
[72] SHELDON, JEFFREY, US
[72] TAFT, BRYAN, US
[72] KIPP, NEILL, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-22
[41] 2024-03-23
[30] US (17/951,761) 2022-09-23

[21] **3,213,776**
[13] A1
[51] **Int.Cl. A61H 7/00 (2006.01)**
[25] EN
[54] **LYMPHATIC DRAINAGE DEVICE AND METHODS OF USE**
[54] **DISPOSITIF DE DRAINAGE LYMPHATIQUE ET METHODES D~UTILISATION**
[72] BRADEN, CECILY J., US
[71] CJB GLOBAL IMPORTS, INC., US
[22] 2023-09-22
[41] 2024-03-23
[30] US (63/409,564) 2022-09-23

[21] **3,213,813**
[13] A1
[51] **Int.Cl. A61B 5/06 (2006.01) A61B 34/10 (2016.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR MINIMALLY INVASIVE SURGICAL INTERVENTIONS**
[54] **SYSTEME ET METHODE POUR REALISER DES INTERVENTIONS CHIRURGICALES LES MOINS INVASIVES POSSIBLE**
[72] PIRON, CAMERON, CA
[72] SWANSON, IAN, CA
[72] VUONG, THANH, CA
[71] SYNAPTIVE MEDICAL INC., CA
[22] 2023-09-21
[41] 2024-03-21
[30] US (63/408,517) 2022-09-21

[21] **3,213,842**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01) A42B 3/04 (2006.01) H01B 7/29 (2006.01) H01R 24/00 (2011.01) H05K 5/00 (2006.01)**
[25] EN
[54] **BALANCED HELMET MOUNTED VISUAL COMMUNICATION AND NAVIGATION SYSTEM**
[54] **SYSTEME DE COMMUNICATION VISUELLE ET DE NAVIGATION EQUILIBRE MONTE SUR CASQUE**
[72] HOUDEK, PHIL, US
[72] RALSTON, MIKE, US
[72] HACIOMEROGLU, OMER, US
[72] COSSMAN, SAM, US
[71] QWAKE TECHNOLOGIES, LLC, US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,198) 2022-09-22

[21] **3,213,856**
[13] A1
[51] **Int.Cl. A42B 3/30 (2006.01) A42B 3/24 (2006.01)**
[25] EN
[54] **VISION MODULE FOR HELMET MOUNTED VISUAL COMMUNICATION AND NAVIGATION SYSTEM**
[54] **MODULE DE VISION POUR UN SYSTEME DE COMMUNICATION VISUELLE ET DE NAVIGATION MONTE SUR CASQUE**
[72] HOUDEK, PHIL, US
[72] RALSTON, MIKE, US
[72] HACIOMEROGLU, OMER, US
[72] COSSMAN, SAM, US
[71] QWAKE TECHNOLOGIES, LLC, US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,200) 2022-09-22

[21] **3,213,921**
[13] A1
[51] **Int.Cl. F25D 21/00 (2006.01) A47F 3/04 (2006.01) F25B 47/02 (2006.01) F25B 49/02 (2006.01) F25D 29/00 (2006.01)**
[25] EN
[54] **REFRIGERATION SYSTEM WITH DEMAND FLUID DEFROST**
[54] **SYSTEME DE REFRIGERATION COMPRENANT UNE FONCTION DE DEMANDE DE DEGIVRAGE FLUIDE**
[72] LYONS, MICHAEL D., US
[71] HUSSMANN CORPORATION, US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/376656) 2022-09-22

[21] **3,213,937**
[13] A1
[25] EN
[54] **METHOD AND SYSTEM FOR DAMPING A WIND TURBINE TOWER**
[54] **METHODE ET SYSTEME D~AMORTISSEMENT POUR UN MAT D~EOLIENNE**
[72] KAMMER, LEONARDO CESAR, US
[71] GENERAL ELECTRIC COMPANY, US
[22] 2023-09-22
[41] 2024-03-23
[30] US (17/951,180) 2022-09-23

[21] **3,213,959**
[13] A1
[51] **Int.Cl. F01C 21/04 (2006.01) F01M 11/06 (2006.01)**
[25] EN
[54] **ASSEMBLIES AND METHODS FOR CONTROLLING LUBRICATION FOR ROTARY ENGINE APEX SEALS**
[54] **ASSEMBLAGES ET METHODES POUR CONTROLER LA LUBRIFICATION DE SEGMENTS D~ARETE DE MOTEUR ROTATIF**
[72] SIMONEAU, JEAN-PHILIPPE, CA
[72] SAVARIA, VINCENT, CA
[72] GAGNON-MARTIN, DAVID, CA
[71] PRATT & WHITNEY CANADA CORP., CA
[22] 2023-09-22
[41] 2024-03-23
[30] US (17/951,843) 2022-09-23

[21] **3,213,983**
[13] A1
[51] **Int.Cl. H04N 23/60 (2023.01) A42B 3/30 (2006.01) H01L 23/34 (2006.01) H01R 24/00 (2011.01) H05K 1/02 (2006.01)**
[25] EN
[54] **COMPUTE MODULE FOR HELMET MOUNTED VISUAL COMMUNICATION AND NAVIGATION SYSTEM**
[54] **MODULE DE CALCUL POUR UN SYSTEME DE COMMUNICATION VISUELLE ET DE NAVIGATION MONTE SUR CASQUE**
[72] HOUDEK, PHIL, US
[72] RALSTON, MIKE, US
[72] HACIOMEROGLU, OMER, US
[72] COSSMAN, SAM, US
[71] QWAKE TECHNOLOGIES, INC., US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,202) 2022-09-22

[21] **3,214,050**
[13] A1
[51] **Int.Cl. G02B 27/01 (2006.01) A42B 3/04 (2006.01) H01B 7/29 (2006.01) H01L 23/427 (2006.01) H05K 7/20 (2006.01)**
[25] EN
[54] **THERMAL PROTECTION FOR HELMET MOUNTED VISUAL COMMUNICATION AND NAVIGATION SYSTEM**
[54] **PROTECTION THERMIQUE POUR UN SYSTEME DE COMMUNICATION VISUELLE ET DE NAVIGATION MONTE SUR CASQUE**
[72] HOUDEK, PHIL, US
[72] RALSTON, MIKE, US
[72] HACIOMEROGLU, OMER, US
[72] COSSMAN, SAM, US
[71] QWAKE TECHNOLOGIES, INC., US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,204) 2022-09-22

[21] **3,214,052**
[13] A1
[51] **Int.Cl. G06F 3/0481 (2022.01) H05B 45/00 (2022.01) H05B 45/20 (2020.01) H05B 47/165 (2020.01) A42B 1/24 (2021.01) G02B 27/01 (2006.01) G06F 3/02 (2006.01) G09F 27/00 (2006.01)**
[25] EN
[54] **VISUAL COMMUNICATION SYSTEM ON HELMET MOUNTED VISUAL COMMUNICATION AND NAVIGATION SYSTEM**
[54] **SYSTEME DE COMMUNICATION VISUELLE POUR UN SYSTEME DE COMMUNICATION VISUELLE ET DE NAVIGATION MONTE SUR CASQUE**
[72] HOUDEK, PHIL, US
[72] RALSTON, MIKE, US
[72] HACIOMEROGLU, OMER, US
[72] COSSMAN, SAM, US
[71] QWAKE TECHNOLOGIES, INC., US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,205) 2022-09-22

[21] **3,214,077**
[13] A1
[51] **Int.Cl. H04B 7/0408 (2017.01) H04W 72/0453 (2023.01) H04W 72/23 (2023.01)**
[25] EN
[54] **BEAM MANAGEMENT FOR ACTIVATED CELLS**
[54] **GESTION DE FAISCEAU POUR CELLULES ACTIVEES**
[72] CIRIK, ALI CAGATAY, US
[72] DINAN, ESMAEL HEJAZI, US
[71] COMCAST CABLE COMMUNNICATIONS, LLC, US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/408,968) 2022-09-22

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[21] **3,214,421**
[13] A1
[51] **Int.Cl. H04W 36/08 (2009.01) H04W 36/16 (2009.01) H04W 36/38 (2009.01)**
[25] EN
[54] **FEEDBACK IN RADIO ACCESS NETWORK**
[54] **RETROACTION DANS UN RESEAU D'ACCES RADIOELECTRIQUE**
[72] FILIN, STANISLAV, US
[72] XU, JIAN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] PARK, KYUNGMIN, US
[72] FARD, PEYMAN TALEBI, US
[72] CHUN, SUNGDUCK, US
[72] QIAO, WEIHUA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-22
[41] 2024-03-22
[30] US (63/409,070) 2022-09-22

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[21] **3,214,430**
[13] A1
[51] **Int.Cl. H04W 52/02 (2009.01) H04W 24/02 (2009.01)**
[25] EN
[54] **ENERGY EFFICIENCY IN RADIO ACCESS NETWORK**
[54] **RENDEMENT ENERGETIQUE DANS UN RESEAU D~ACCES RADIOELECTRIQUE**
[72] FILIN, STANISLAV, US
[72] XU, JIAN, US
[72] DINAN, ESMAEL HEJAZI, US
[72] PARK, KYUNGMIN, US
[72] FARD, PEYMAN TALEBI, US
[72] CHUN, SUNGDUCK, US
[72] QIAO, WEIHUA, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2023-09-22
[41] 2024-03-23
[30] US (63/409,627) 2022-09-23

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[21] **3,226,668**
[13] A1
[51] **Int.Cl. G01N 21/25 (2006.01)**
[25] EN
[54] **PENETRATION TESTING MODULE**
[54] **MODULE D~ESSAI DE PENETRATION**
[72] SHARP, JAMES, CA
[72] ENTEZARI, IMAN, CA
[72] MCGOWAN, DALLAS, CA
[71] SOLETANCHE FREYSSINET, FR
[22] 2024-01-18
[41] 2024-03-19

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[21] **3,226,701**
[13] A1
[51] **Int.Cl. B27B 13/04 (2006.01) B27B 3/30 (2006.01) B27B 27/00 (2006.01) B27B 31/04 (2006.01)**
[25] EN
[54] **SAWMILL BED ASSEMBLY**
[54] **ASSEMBLAGE DE LIT DE SCIERIE**
[72] SHELLSWELL, BRIAN, CA
[71] NORWOOD INDUSTRIES INC., CA
[22] 2024-01-19
[41] 2024-03-19

PCT Applications Entering the National Phase

Demandes PCT entrant en phase nationale

[21] **3,174,193**
[13] A1
[51] **Int.Cl. A61F 2/46 (2006.01) A61B 17/15 (2006.01) A61F 2/38 (2006.01)**
[25] FR
[54] **OPERATION EQUIPMENT FOR KNEE SURGERY, OPERATING ROOM EQUIPPED WITH SUCH EQUIPMENT, KIT FOR ASSEMBLY, AND METHODS FOR CORRESPONDING ASSEMBLY, OPERATION AND USAGE**
[54] **EQUIPEMENT D'OPERATION POUR CHIRURGIE DU GENOU, SALLE D'OPERATION POURVUE D'UN TEL EQUIPEMENT, KIT POUR ASSEMBLER, ET METHODES D'ASSEMBLAGE, D'OPERATION ET D'UTILISATION CORRESPONDANTE**
[72] SIOUFI, GEORGES, CA
[71] SIOUFI, GEORGES, CA
[85] 2022-09-29
[86] 2022-09-21 (PCT/CA2022/051405)
[87] (3174193)

[21] **3,218,216**
[13] A1
[51] **Int.Cl. C22C 21/02 (2006.01) B21C 23/00 (2006.01) B21C 23/14 (2006.01) C22C 21/04 (2006.01) C22F 1/043 (2006.01)**
[25] EN
[54] **A 6XXX ALLOY FOR HIGH STRENGTH EXTRUDED PRODUCTS WITH HIGH PROCESSABILITY**
[54] **ALLIAGE A6XXX POUR PRODUITS EXTRUDES A HAUTE RESISTANCE PRESENTANT UNE APTITUDE ELEVEE AU TRAITEMENT**
[72] BEN TAHAR, MEHDI, FR
[72] TIRARD-COLLET, ROLAND, FR
[72] JARRETT, MARTIN, GB
[71] CONSTELLIUM SINGEN GMBH, DE
[71] CONSTELLIUM EXTRUSION LEVICE S.R.O., SK
[85] 2023-10-27
[86] 2022-05-24 (PCT/EP2022/064040)
[87] (WO2022/248465)
[30] EP (21175802.4) 2021-05-25

[21] **3,228,130**
[13] A1
[51] **Int.Cl. H04L 12/14 (2006.01) H04L 47/80 (2022.01) G06Q 10/0631 (2023.01) H04L 41/16 (2022.01) H04L 67/75 (2022.01)**
[25] EN
[54] **METHODS, SYSTEMS, APPARATUSES, AND DEVICES FOR FACILITATING CONTROLLING AND MANAGING CLOUD USAGE COSTS FOR USING CLOUD RESOURCES**
[54] **PROCEDES, SYSTEMES, APPAREILS ET DISPOSITIFS POUR FACILITER LA COMMANDE ET LA GESTION DE COUTS D'UTILISATION DE NUAGE EN VUE D'UTILISER DES RESSOURCES EN NUAGE**
[72] KRISHNAIAH, VENKATESH KUMAR, US
[72] VENKATESH, VARSHA, US
[71] KRISHNAIAH, VENKATESH KUMAR, US
[71] VENKATESH, VARSHA, US
[85] 2024-02-06
[86] 2021-08-27 (PCT/US2021/048091)
[87] (WO2023/014384)
[30] US (63/230,416) 2021-08-06

[21] **3,229,707**
[13] A1
[51] **Int.Cl. G01N 33/53 (2006.01) C12Q 1/6886 (2018.01) A61K 39/395 (2006.01)**
[25] EN
[54] **METHODS OF DETERMINING CANCER THERAPY EFFECTIVENESS**
[54] **METHODES DE DETERMINATION DE L'EFFICACITE D'UNE THERAPIE ANTICANCEREUSE**
[72] RHODES, DANIEL REED, US
[72] TOMLINS, SCOTT ARTHUR, US
[72] JOHNSON, DAVID BRYAN, US
[71] STRATA ONCOLOGY, INC., US
[85] 2023-12-18
[86] 2022-06-21 (PCT/US2022/034422)
[87] (WO2022/266552)
[30] US (63/212,581) 2021-06-18

[21] **3,231,355**
[13] A1
[51] **Int.Cl. B61B 12/06 (2006.01) B61B 12/02 (2006.01)**
[25] EN
[54] **INSERT ELEMENT FOR GUIDING A ROPE OR CABLE, ROPE OR CABLE GUIDE ROLLER AND METHOD OF MANUFACTURING AN INSERT ELEMENT**
[54] **ELEMENT D'INSERT POUR GUIDER UN CORDON OU UN CABLE, ROULEAU DE GUIDAGE DE CORDON OU ROULEAU DE GUIDAGE DE CABLE ET PROCEDE DE FABRICATION D'UN ELEMENT D'INSERT**
[72] HARING, WALTER, AT
[72] MIESSBACHER, HERWIG, AT
[72] ROYER, LIONEL, AT
[72] STURM, FLORIAN, AT
[71] SEMPERIT AG HOLDING, AT
[85] 2024-03-08
[86] 2022-08-22 (PCT/EP2022/073319)
[87] (WO2023/036591)
[30] DE (10 2021 123 217.1) 2021-09-08

[21] **3,231,359**
[13] A1
[51] **Int.Cl. H01M 10/46 (2006.01) H10N 15/00 (2023.01) H02N 11/00 (2006.01)**
[25] EN
[54] **POWER GENERATION FUNCTION-EQUIPPED SECONDARY BATTERY**
[54] **BATTERIE SECONDAIRE EQUIPEE D'UNE FONCTION DE GENERATION D'ENERGIE**
[72] GOTO, HIROSHI, JP
[72] SAKATA, MINORU, JP
[72] YASUDA, TAKUO, JP
[72] ANDERSSON, LARS MATTIAS, JP
[72] OKADA, SEIJI, JP
[72] NAKAMURA, TAKAHIRO, JP
[71] GCE INSTITUTE INC., JP
[85] 2024-03-08
[86] 2022-09-09 (PCT/JP2022/033837)
[87] (WO2023/038109)
[30] JP (2021-147809) 2021-09-10
[30] JP (2022-001329) 2022-01-06

[21] **3,231,521**
[13] A1
[51] **Int.Cl. E21B 33/127 (2006.01) E21B 23/04 (2006.01) E21B 23/06 (2006.01)**
[25] EN
[54] **DOWNHOLE SETTING TOOL AND METHOD OF USE**
[54] **OUTIL DE POSE DE FOND DE TROU ET PROCEDE D'UTILISATION**
[72] SCHROIT, SAM, US
[72] WENSRICH, JEFFREY BRUCE, US
[71] BN TECHNOLOGY HOLDINGS INC., US
[85] 2024-03-11
[86] 2022-09-12 (PCT/US2022/043247)
[87] (WO2023/039258)
[30] US (63/243,603) 2021-09-13

[21] **3,231,625**
[13] A1
[51] **Int.Cl. A63B 37/00 (2006.01) A63B 37/12 (2006.01) A63B 37/14 (2006.01)**
[25] EN
[54] **LEATHER COVERED GAME BALL**
[54] **BALLE DE JEU RECOUVERTE DE CUIR**
[72] HOEFLER, JOSEPH, US
[72] PACHOLSKI, MICHAELEEN, US
[71] ROHM AND HAAS COMPANY, US
[85] 2024-03-12
[86] 2022-06-30 (PCT/US2022/073275)
[87] (WO2023/044182)
[30] US (63/314,493) 2022-02-28
[30] US (63/245,964) 2021-09-20

[21] **3,231,781**
[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01)**
[25] EN
[54] **SOLID FORM OF RHO-ASSOCIATED PROTEIN KINASE INHIBITOR OR SOLVATE THEREOF, PREPARATION METHOD AND USE THEREOF**
[54] **FORME SOLIDE D'UN INHIBITEUR DE PROTEINE KINASE ASSOCIEE A RHO OU SOLVATE DE CELUI-CI, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] WANG, HONGJUN, CN
[72] FENG, ZEWANG, CN
[72] TIAN, NANA, CN
[72] ZHAO, YANPING, CN
[72] YANG, JUN, CN
[72] WEI, LAI, CN
[72] CAO, XIANGRONG, CN
[72] CHEN, JIE, CN
[71] BEIJING TIDE PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-13
[86] 2022-09-16 (PCT/CN2022/119269)
[87] (WO2023/041026)
[30] CN (202111103170.9) 2021-09-18

[21] **3,231,784**
[13] A1
[51] **Int.Cl. B61F 19/04 (2006.01)**
[25] EN
[54] **INTELLIGENT ANTI-CREEPING SYSTEM FOR RAIL TRAIN, CONTROL METHOD, AND RAIL TRAIN**
[54] **SYSTEME ANTI-ESCALADE INTELLIGENT DE TRAIN FERROVIAIRE, PROCEDE DE COMMANDE ET TRAIN FERROVIAIRE**
[72] CHEN, DAWEI, CN
[72] WANG, HUI, CN
[72] LI, NING, CN
[72] LIU, SHAOQING, CN
[72] YANG, GUOJIAN, CN
[72] HAO, WEIJIANG, CN
[72] ZHANG, ZHIQIANG, CN
[71] CRRC QINGDAO SIFANG CO.,LTD., CN
[85] 2024-03-13
[86] 2022-09-30 (PCT/CN2022/123123)
[87] (WO2023/066015)
[30] CN (202111223607.2) 2021-10-20

[21] **3,231,788**
[13] A1
[51] **Int.Cl. B60W 60/00 (2020.01)**
[25] EN
[54] **MINING AUTOMATION SYSTEM OPERATION ZONE CONTROL**
[54] **COMMANDE DE ZONE DE FONCTIONNEMENT D'UN SYSTEME D'AUTOMATISATION D'EXPLOITATION MINIERE**
[72] CUMINI, LAUSO, FI
[72] VAARA, JUHO, FI
[71] SANDVIK MINING AND CONSTRUCTION OY, FI
[85] 2024-03-13
[86] 2022-09-27 (PCT/EP2022/076787)
[87] (WO2023/052337)
[30] EP (21199470.2) 2021-09-28

[21] **3,231,789**
[13] A1
[51] **Int.Cl. F25J 1/00 (2006.01) F25J 1/02 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR THE RECOVERY OF BOIL-OFF GAS FROM THE LIQUEFACTION OF HYDROGEN**
[54] **PROCEDE ET APPAREILLAGE DE RECUPERATION DES GAZ D'EVAPORATION DE LA LIQUEFACTION DE L'HYDROGENE**
[72] DIAS, FLORENCE, FR
[72] FARGES, ORIANE, US
[72] GRANADOS, LUDOVIC, FR
[72] PAGES, BAPTISTE, FR
[71] L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PRO..., FR
[85] 2024-03-13
[86] 2022-09-23 (PCT/EP2022/076501)
[87] (WO2023/046889)
[30] US (63/248,185) 2021-09-24
[30] EP (21217744.8) 2021-12-24
[30] US (17/743,839) 2022-05-13

[21] **3,231,791**
[13] A1
[51] **Int.Cl. A61K 31/4418 (2006.01) A61K 31/451 (2006.01) A61K 31/4545 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**
[25] EN
[54] **PRIDOPIDINE AND ANALOGS THEREOF FOR THE TREATMENT OF NEURODEGENERATIVE EYE DISEASE**
[54] **PRIDOPIDINE ET ANALOGUES DE CELLE-CI POUR LE TRAITEMENT D'UNE MALADIE OCULAIRE NEURODEGENERATIVE**
[72] HAYDEN, MICHAEL, IL
[72] GEVA, MICHAL, IL
[71] PRILENIA NEUROTHERAPEUTICS LTD., IL
[85] 2024-03-13
[86] 2022-10-11 (PCT/IL2022/051082)
[87] (WO2023/062632)
[30] US (17/498,075) 2021-10-11
[30] US (17/513,239) 2021-10-28

[21] **3,231,794**
[13] A1
[51] **Int.Cl. G06Q 20/20 (2012.01) G06Q 30/06 (2023.01) G01G 19/41 (2006.01) G06V 10/82 (2022.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR ITEM RECOGNITION**
[54] **SYSTEMES ET PROCEDES DE RECONNAISSANCE D'ARTICLES**
[72] YANG, SHIYUAN, CN
[72] GAO, LIN, US
[72] HE, YUFENG, CN
[72] ZHOU, XIAO, CN
[72] HUANG, YILIN, CN
[72] KELLY, GRIFFIN, US
[72] TSAI, ISABEL, US
[72] BESHRY, AHMED, US
[71] MAPLEBEAR INC., US
[85] 2024-03-13
[86] 2022-09-22 (PCT/US2022/044340)
[87] (WO2023/049239)
[30] CN (202111110492.6) 2021-09-23

[21] **3,231,795**
[13] A1
[51] **Int.Cl. C01B 21/064 (2006.01) C08K 3/28 (2006.01) C08K 3/38 (2006.01)**
[25] EN
[54] **HEXAGONAL BORON NITRIDE POWDER FOR FILLER**
[54] **POUDRE DE CHARGE DE NITRURE DE BORE HEXAGONAL**
[72] KURODA, MASAOMI, JP
[72] NAKAGAWA, YUMI, JP
[72] KATAYAMA, SHIGEYUKI, JP
[72] NABESHIMA, SEIJI, JP
[72] MIYAGUCHI, MASASHI, JP
[71] JFE MINERAL & ALLOY COMPANY, LTD., JP
[85] 2024-03-13
[86] 2022-09-20 (PCT/JP2022/035036)
[87] (WO2023/048149)
[30] JP (2021-157192) 2021-09-27

[21] **3,231,799**
[13] A1
[51] **Int.Cl. B60C 7/08 (2006.01) A01G 25/09 (2006.01)**
[25] EN
[54] **NON-PNEUMATIC TIRES FOR IN-FIELD IRRIGATION SYSTEMS**
[54] **PNEUS NON PNEUMATIQUES POUR SYSTEMES D'IRRIGATION DE PLEIN CHAMP**
[72] HIRD, DEREK, CA
[71] 1434882 ALBERTA LTD., CA
[85] 2024-03-13
[86] 2022-07-26 (PCT/CA2022/051150)
[87] (WO2023/065009)
[30] US (63/270,334) 2021-10-21

[21] **3,231,801**
[13] A1
[51] **Int.Cl. D21D 1/30 (2006.01)**
[25] EN
[54] **REFINING SEGMENT FOR REFINER**
[54] **SEGMENT DE RAFFINAGE POUR RAFFINEUR**
[72] SJOSTROM, HAKAN, FI
[72] VIRTANEN, JUKKA, FI
[71] VALMET TECHNOLOGIES OY, FI
[85] 2024-03-13
[86] 2022-10-07 (PCT/FI2022/050668)
[87] (WO2023/062273)
[30] FI (20216057) 2021-10-12

[21] **3,231,803**
[13] A1
[51] **Int.Cl. G08B 19/02 (2006.01) F03D 80/40 (2016.01) B64D 15/20 (2006.01)**
[25] EN
[54] **MOISTURE ICING DETECTION SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DETECTION D'HUMIDITE ET DE GIVRAGE**
[72] NESDOLY, MARK TIMOTHY ALEXANDER, CA
[72] GILL, AKALJOT SINGH, CA
[72] RICHARD, JOSHUA CALE, CA
[72] ROSENTRETER, WILLIAM COLE, CA
[72] DOCKERY, MICHAEL, CA
[72] SHERSTAN, MARK, CA
[71] PEGASUS IMAGERY LTD., CA
[85] 2024-03-13
[86] 2022-08-05 (PCT/CA2022/051202)
[87] (WO2023/049991)
[30] US (63/261,977) 2021-10-01

[21] **3,231,804**
[13] A1
[51] **Int.Cl. E04H 4/12 (2006.01)**
[25] EN
[54] **INLINE END ENGAGING SYSTEM**
[54] **SYSTEME DE MISE EN PRISE A EXTREMITE EN LIGNE**
[72] BARTON, ERIC, US
[72] JOHNSON, JEFFREY D., US
[72] SWAGEL, DARRIN M, US
[71] KING TECHNOLOGY, INC., US
[85] 2024-03-13
[86] 2022-09-09 (PCT/US2022/043056)
[87] (WO2023/043672)
[30] US (63/360,214) 2021-09-14

[21] **3,231,805**
[13] A1
[51] **Int.Cl. A61K 38/01 (2006.01) A61K 38/20 (2006.01) A61K 39/00 (2006.01) A61P 27/06 (2006.01)**
[25] EN
[54] **A COMPOSITION COMPRISING IL-36 AND/OR IL-18 FOR USE IN TREATING OCULAR DISORDERS**
[54] **COMPOSITION COMPRENANT IL-36 ET/OU IL-18 POUR UNE UTILISATION DANS LE TRAITEMENT DE TROUBLES OCULAIRES**
[72] DOYLE, SARAH, IE
[72] ADAMSON, PETER, GB
[72] CAMPBELL, MATTHEW, IE
[71] THE PROVOST, FELLOWS, FOUNDATION SCHOLARS, & THE OTHER MEMBERS OF BOARD, OF THE COLLEGE OF THE HOLY AND UNDIV. TRINITY OF QUEEN ELIZABETH, NEAR DUBLIN, IE
[85] 2024-03-13
[86] 2022-09-14 (PCT/EP2022/075505)
[87] (WO2023/041569)
[30] EP (21196717.9) 2021-09-14

[21] **3,231,806**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/705 (2006.01) A61K 35/12 (2015.01)**
[25] EN
[54] **COMPOSITIONS OF CHIMERIC ANTIGEN RECEPTOR (CAR) SIGNALING MOLECULES AND USES THEREOF**
[54] **COMPOSITIONS DE MOLECULES DE SIGNALISATION DE RECEPTEUR ANTIGENIQUE CHIMERIQUE (CAR) ET LEURS UTILISATIONS**
[72] RICHARDS, REBECCA, US
[72] MACKALL, CRYSTAL L., US
[72] MAJETI, RAVINDRA, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2024-03-13
[86] 2022-09-14 (PCT/US2022/076439)
[87] (WO2023/044350)
[30] US (63/244,636) 2021-09-15

[21] **3,231,807**
[13] A1
[51] **Int.Cl. C02F 1/68 (2006.01)**
[25] EN
[54] **DISPENSING CARTRIDGE ALERT**
[54] **ALERTE LIEE A UNE CARTOUCHE DE DISTRIBUTION**
[72] BARTON, ERIC, US
[72] JOHNSON, JEFFREY D., US
[72] SWAGEL, DARRIN M., US
[71] KING TECHNOLOGY, INC., US
[85] 2024-03-13
[86] 2022-09-09 (PCT/US2022/043050)
[87] (WO2023/043670)
[30] US (63/360,215) 2021-09-14

[21] **3,231,808**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) C07D 417/12 (2006.01)**
[25] EN
[54] **PHENYL CORE COMPOUNDS AS MGLU5 NEGATIVE ALLOSTERIC MODULATORS AND METHODS OF MAKING AND USING THE SAME**
[54] **COMPOSES A NOYAU PHENYLE SERVANT DE MODULATEURS ALLOSTERIQUES NEGATIFS DE MGLU5 ET LEURS PROCEDES DE PRODUCTION ET D'UTILISATION**
[72] LINDSLEY, CRAIG W., US
[72] CONN, P. JEFFREY, US
[72] FELTS, ANDREW S., US
[72] CAPSTICK, RORY A., US
[72] TEMPLE, KAYLA J., US
[72] RINGUETTE, ANNA E., US
[72] HENDERSON, SCOTT H., US
[72] WHOMBLE, DAVID L., US
[71] VANDERBILT UNIVERSITY, US
[85] 2024-03-13
[86] 2022-09-14 (PCT/US2022/043506)
[87] (WO2023/043823)
[30] US (63/244,062) 2021-09-14

[21] **3,231,809**
[13] A1
[51] **Int.Cl. C07K 14/005 (2006.01) A61P 11/00 (2006.01) A61P 31/14 (2006.01)**
[25] EN
[54] **ORAL VACCINE VIA DENTAL BACTERIA AND EMITTED PEPTIDES TO PREVENT COVID-19 INFECTION**
[54] **VACCIN BUCCAL PAR L'INTERMEDIAIRE DE BACTERIES DENTAIRES ET DE PEPTIDES EMIS POUR PREVENIR UNE INFECTION PAR COVID-19**
[72] KOTLYAR, DAVID, US
[71] KOTLYAR, DAVID, US
[85] 2024-03-13
[86] 2022-09-19 (PCT/US2022/076681)
[87] (WO2023/044494)
[30] US (63/245,553) 2021-09-17

[21] **3,231,811**
[13] A1
[51] **Int.Cl. B01F 21/20 (2022.01) C02F 1/68 (2006.01)**
[25] EN
[54] **INLINE DISPENSER SYSTEM**
[54] **SYSTEME DE DISTRIBUTION EN LIGNE**
[72] BARTON, ERIC, US
[72] JOHNSON, JEFFREY D., US
[72] DARRIN M., SWAGEL, US
[71] KING TECHNOLOGY, INC, US
[85] 2024-03-13
[86] 2022-09-09 (PCT/US2022/043044)
[87] (WO2023/043667)
[30] US (63/360,216) 2021-09-14

[21] **3,231,896**
[13] A1
[51] **Int.Cl. A23L 3/00 (2006.01) A23L 3/26 (2006.01)**
[25] FR
[54] **IMPROVED PHOTOBIOLOGICAL TREATMENT DEVICE**
[54] **DISPOSITIF DE TRAITEMENT PHOTO-BIOLOGIQUE AMELIORE**
[72] ROYNETTE, CHRISTINE, FR
[72] ROYNETTE, PATRICK, FR
[71] ASCLEPIOS TECH, FR
[85] 2024-03-14
[86] 2022-09-27 (PCT/FR2022/051824)
[87] (WO2023/052725)
[30] FR (FR2110422) 2021-10-01

[21] **3,231,907**
[13] A1
[51] **Int.Cl. B01D 53/22 (2006.01) C10L 3/10 (2006.01)**
[25] FR
[54] **BIOGAS PURIFICATION UNIT**
[54] **UNITE D'EPURATION DE BIOGAZ**
[72] PEYRAT, ERIC, FR
[72] PAOLOZZI, SEBASTIEN, FR
[71] PRODEVAL SAS, FR
[85] 2024-03-14
[86] 2022-09-19 (PCT/EP2022/075875)
[87] (WO2023/041755)
[30] FR (FR2109793) 2021-09-17

[21] **3,231,918**
[13] A1
[51] **Int.Cl. B60L 50/75 (2019.01) B60K 11/06 (2006.01) H01M 8/04 (2016.01)**
[25] EN
[54] **WORK VEHICLE**
[54] **VEHICULE DE CHANTIER**
[72] HOSHINO, YUTA, JP
[72] OBATA, KOJI, JP
[72] YAMAWAKI, SHOTA, JP
[71] KOMATSU LTD., JP
[85] 2024-03-14
[86] 2022-09-21 (PCT/JP2022/035237)
[87] (WO2023/074203)
[30] JP (2021-177729) 2021-10-29

[21] **3,231,922**
[13] A1
[51] **Int.Cl. A61G 17/00 (2006.01) A61G 17/02 (2006.01)**
[25] EN
[54] **LIGHTWEIGHT CASKET LID AND CASKET LID ASSEMBLY**
[54] **COUVERCLE DE CERCUEIL LEGER ET ENSEMBLE COUVERCLE DE CERCUEIL**
[72] DAVIS, JUSTIN F., US
[72] DAVIS, GERALD H., US
[71] VANDOR GROUP, INC., US
[85] 2024-03-14
[86] 2022-09-14 (PCT/US2022/043495)
[87] (WO2023/043815)
[30] US (17474550) 2021-09-14

[21] **3,231,923**
[13] A1
[51] **Int.Cl. B03D 1/02 (2006.01) C02F 1/66 (2006.01) C02F 1/68 (2006.01) C02F 1/72 (2006.01)**
[25] EN
[54] **WASTEWATER TREATMENT SYSTEM AND METHODS UTILIZING CHEMICAL PRE-TREATMENT AND FOAM FRACTIONATION**
[54] **SYSTEME DE TRAITEMENT DES EAUX USEES ET PROCEDES UTILISANT UN PRETRAITEMENT CHIMIQUE ET UN FRACTIONNEMENT A L'AIDE D'UNE MOUSSE**
[72] ISMOND, ALAN, US
[71] AQUA-TERRA CONSULTANTS, US
[85] 2024-03-14
[86] 2022-10-07 (PCT/US2022/046099)
[87] (WO2023/059906)
[30] US (63/253,937) 2021-10-08

[21] **3,231,925**
[13] A1
[51] **Int.Cl. C07D 413/14 (2006.01) A61P 25/28 (2006.01) C07D 413/12 (2006.01) C07D 417/14 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **FUSED HETEROCYCLIC RINGS AS RIPK1 INHIBITORS**
[54] **HETEROCYCLES FUSIONNES UTILES COMME INHIBITEURS DE RIPK1**
[72] SEO, JEONGBEOB, KR
[72] HAN, CHEOLKYU, KR
[72] YOON, CHEOLHWAN, KR
[72] YANG, INHO, KR
[72] KIM, JINYOUNG, KR
[72] PARK, KITAE, KR
[72] KIM, SUNJOO, KR
[72] JEONG, HEEJIN, KR
[72] KANG, HONGJUN, KR
[72] JEON, SEEUN, KR
[72] KIM, MINHA, KR
[72] KIM, NAMHEE, KR
[72] CHOI, SUNGMIN, KR
[72] MIN, JIAE, KR
[72] KWON, YOUNGEUN, KR
[72] HAN, SANGBAE, KR
[71] BISICHEM CO., LTD., KR
[85] 2024-03-14
[86] 2022-09-18 (PCT/KR2022/013926)
[87] (WO2023/043284)
[30] US (63/245,282) 2021-09-17

[21] **3,231,927**
[13] A1
[51] **Int.Cl. C12Q 1/6858 (2018.01) C12Q 1/6811 (2018.01) C12Q 1/6855 (2018.01)**
[25] EN
[54] **METHODS FOR IDENTIFYING PROTEIN CODING SEQUENCES USING DNA BARCODES**
[54] **PROCEDES D'IDENTIFICATION DE SEQUENCES DE CODAGE DE PROTEINES A L'AIDE DE CODES-BARRES D'ADN**
[72] YOUNGER, DAVID, US
[72] LOPEZ, RANDOLPH, US
[72] EMERSON, RYAN, US
[71] A-ALPHA BIO, INC., US
[85] 2024-03-14
[86] 2022-09-09 (PCT/US2022/043139)
[87] (WO2023/043685)
[30] US (63/244,957) 2021-09-16

[21] **3,231,929**
[13] A1
[51] **Int.Cl. G06F 21/60 (2013.01)**
[25] EN
[54] **COMMUNICATION LINK**
[54] **LIAISON DE COMMUNICATION**
[72] LIM, HAN CHUEN, SG
[72] LIU, MAOTONG, SG
[71] LIM, HAN CHUEN, SG
[71] LIU, MAOTONG, SG
[85] 2024-03-14
[86] 2022-09-13 (PCT/SG2022/050649)
[87] (WO2023/043368)
[30] SG (10202110284W) 2021-09-17

[21] **3,231,930**
[13] A1
[51] **Int.Cl. C08F 10/02 (2006.01)**
[25] EN
[54] **ULTRAHIGH-MOLECULAR-WEIGHT POLYETHYLENE POWDER AND MOLDED ARTICLE PREPARED BY MOLDING SAME**
[54] **POUDRE DE POLYETHYLENE A ULTRA-HAUT POIDS MOLECULAIRE ET OBJET FACONNE OBTENU PAR MISE EN FORME DE CELLE-CI**
[72] TSUJIMOTO, KOICHI, JP
[72] SHIKATA, KAZUYA, JP
[71] ASAHI KASEI KABUSHIKI KAISHA, JP
[85] 2024-03-14
[86] 2022-09-28 (PCT/JP2022/036272)
[87] (WO2023/054514)
[30] JP (2021-159241) 2021-09-29

[21] **3,231,931**
[13] A1
[51] **Int.Cl. A61P 25/00 (2006.01) A61P 25/04 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **CANNABINOID FORMULATION FOR ORAL ADMINISTRATION**
[54] **FORMULATION DE CANNABINOIDE POUR ADMINISTRATION ORALE**
[72] MALIK, ANTONIN, CZ
[72] STORCH, JAN, CZ
[71] CB21 PHARMA, S.R.O., CZ
[85] 2024-03-14
[86] 2022-09-07 (PCT/CZ2022/050086)
[87] (WO2023/046220)
[30] CZ (PV 2021-448) 2021-09-22

[21] **3,231,932**
[13] A1
[51] **Int.Cl. E21B 15/04 (2006.01) E21B 19/08 (2006.01) E21B 19/16 (2006.01) E21B 44/04 (2006.01)**
[25] EN
[54] **HORIZONTAL DIRECTIONAL DRILLING SYSTEM WITH IMPROVED SYSTEM FOR LIMITING TORQUE**
[54] **SYSTEME DE FORAGE DIRECTIONNEL HORIZONTAL A SYSTEME AMELIORE DE LIMITATION DE COUPLE**
[72] BUCKLEY, ZACH, US
[72] MORGAN, JASON, US
[71] VERMEER MANUFACTURING COMPANY, US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/043737)
[87] (WO2023/043968)
[30] US (63/244,942) 2021-09-16

[21] **3,231,933**
[13] A1
[51] **Int.Cl. C12N 7/00 (2006.01) C12N 7/02 (2006.01)**
[25] EN
[54] **METHOD FOR FURTHER UPSCALING THE LARGE-SCALE PRODUCTION OF THE ONCOLYTIC H-1 PROTOPARVOVIRUS (H-1PV) USING A CARRIER-BASED PRODUCTION PROCESS COMBINED WITH AN OPTIMIZED CELL CULTURE MEDIUM**
[54] **PROCEDE POUR AUGMENTER LA PRODUCTION A GRANDE ECHELLE DU PROTOPARVOVIRUS ONCOLYTIQUE H-1 (H-1PV) EN UTILISANT UN PROCEDE DE PRODUCTION BASE SUR UN VECTEUR COMBINE A UN MILIEU DE CULTURE CELLULAIRE OPTIMIS**
[72] LEUCHS, BARBARA, DE
[72] FREHTMAN, VERONIKA, DE
[72] VOGEL, MARTIN, DE
[72] WOHLFARTH, DANIEL, DE
[72] PHAN, LINH MINH PHUC, DE
[72] BRUNECKER, ADRIAN, DE
[71] DEUTSCHES KREBSFORSCHUNGSZENTRUM STIFTUNG DES OFFENTLICHEN RECHTS, DE
[85] 2024-03-14
[86] 2022-09-28 (PCT/EP2022/076992)
[87] (WO2023/052429)
[30] EP (21200181.2) 2021-09-30

[21] **3,231,934**
[13] A1
[51] **Int.Cl. B23H 7/02 (2006.01) B23H 9/00 (2006.01)**
[25] EN
[54] **METHOD OF MANUFACTURING A GRIPPING SURFACE FOR AN END EFFECTOR AND SURGICAL INSTRUMENT COMPRISING A GRIPPING END EFFECTOR**
[54] **PROCEDE DE FABRICATION D'UNE SURFACE DE PREHENSION POUR UN EFFECTEUR TERMINAL ET INSTRUMENT CHIRURGICAL COMPRENANT UN EFFECTEUR TERMINAL DE PREHENSION**
[72] BACCHERETI, MARCO, IT
[72] PIEROTTI, NERI, IT
[72] LAZZARI, GIORGIO, IT
[72] SIMI, MASSIMILIANO, IT
[71] MEDICAL MICROINSTRUMENTS, INC., US
[85] 2024-03-14
[86] 2022-10-12 (PCT/IB2022/059771)
[87] (WO2023/062553)
[30] IT (102021000026186) 2021-10-13

[21] **3,231,935**
[13] A1
[51] **Int.Cl. A01N 33/18 (2006.01) A01N 35/06 (2006.01) A01N 43/42 (2006.01) A01N 43/84 (2006.01) D06M 10/04 (2006.01)**
[25] EN
[54] **ANTIMICROBIAL PHOTOACTIVE NANOFIBROUS POLYMER MATERIAL**
[54] **MATERIAU POLYMERE NANOFIBREUX PHOTOACTIF ANTIMICROBIEN**
[72] MOSINGER, JIRI, CZ
[72] LISKA, VOJTECH, CZ
[72] KRTENOVA, PETRA, CZ
[72] HENKE, PETR, CZ
[72] CHALOUPKA, ROMAN, CZ
[71] LAM-X A.S., CZ
[85] 2024-03-14
[86] 2022-11-14 (PCT/CZ2022/050120)
[87] (WO2023/088507)
[30] EP (21208640.9) 2021-11-16

[21] **3,231,937**
[13] A1
[51] **Int.Cl. F01D 5/14 (2006.01) F01D 5/18 (2006.01) F01D 9/06 (2006.01)**
[25] FR
[54] **TURBOMACHINE ELEMENT COMPRISING AT LEAST ONE BLADE OBTAINED BY ADDITIVE MANUFACTURING**
[54] **ELEMENT DE TURBOMACHINE COMPRENANT AU MOINS UNE PALE OBTENUE PAR FABRICATION ADDITIVE**
[72] VOTIE, SYLVAIN PIERRE, FR
[72] BOISSELEAU, DENIS DANIEL JEAN, FR
[72] BETBEDER-LAUQUE, XAVIER ROGER, FR
[71] SAFRAN HELICOPTER ENGINES, FR
[85] 2024-03-14
[86] 2022-09-16 (PCT/FR2022/051747)
[87] (WO2023/041880)
[30] FR (FR2109800) 2021-09-17

[21] **3,231,938**
[13] A1
[51] **Int.Cl. E02F 3/36 (2006.01)**
[25] EN
[54] **A COUPLER**
[54] **ACCOUPLEUR**
[72] HUGHES, NOEL ROBERT, AU
[71] HUGHES ASSET GROUP PTY LTD, AU
[85] 2024-03-14
[86] 2022-09-15 (PCT/IB2022/058682)
[87] (WO2023/042100)
[30] AU (2021902983) 2021-09-16

[21] **3,231,939**
[13] A1
[51] **Int.Cl. F04B 39/14 (2006.01) F04B 41/06 (2006.01) F04B 49/06 (2006.01) F04B 51/00 (2006.01)**
[25] EN
[54] **METHOD AND PROCEDURE FOR REMOTE MANAGEMENT OF A COMPRESSED AIR DISTRIBUTION SYSTEM**
[54] **PROCEDE ET PROCEDURE POUR GESTION A DISTANCE D'UN SYSTEME DE DISTRIBUTION D'AIR COMPRIME**
[72] PESSEMIER, WIM, BE
[71] ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, BE
[85] 2024-03-14
[86] 2022-10-24 (PCT/EP2022/079621)
[87] (WO2023/078717)
[30] BE (BE2021/5867) 2021-11-08

[21] **3,231,940**
[13] A1
[51] **Int.Cl. E21B 21/06 (2006.01)**
[25] EN
[54] **DRILLING FLUID CONDITIONING SYSTEMS AND METHODS**
[54] **SYSTEMES ET PROCEDES DE CONDITIONNEMENT DE FLUIDE DE FORAGE**
[72] HOLMAN, IAN M., US
[72] SCOTT, ERIC LANDON, US
[72] LAPEYROUSE, MARK J., US
[72] WOOD, BRADFORD R., US
[71] NATIONAL OILWELL VARCO, L.P., US
[85] 2024-03-14
[86] 2022-09-22 (PCT/US2022/044335)
[87] (WO2023/049236)
[30] US (63/247,145) 2021-09-22

[21] **3,231,941**
[13] A1
[51] **Int.Cl. G08G 1/01 (2006.01) G08G 1/015 (2006.01) G08G 1/052 (2006.01) G08G 1/07 (2006.01) G08G 1/095 (2006.01)**
[25] EN
[54] **INTELLIGENT ENTRY AND EGRESS FOR DEDICATED LANE**
[54] **ENTREE ET SORTIE INTELLIGENTES POUR VOIE SPECIALISEE**
[72] CLIFFORD, DAVID HAHN, US
[72] DE LA VERGNE, PAUL MARK, US
[71] CAVNUE TECHNOLOGY, LLC, US
[85] 2024-03-14
[86] 2022-09-09 (PCT/US2022/043049)
[87] (WO2023/043669)
[30] US (17/476,800) 2021-09-16

[21] **3,231,942**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR IMPLEMENTING A HIGH-RESOLUTION SEISMIC PSEUDO-REFLECTIVITY IMAGE**
[54] **PROCEDE ET APPAREIL POUR MISE EN ?UVRE D'UNE IMAGE DE PSEUDO-REFLECTIVITE SISMIQUE A HAUTE RESOLUTION**
[72] JIANG, LI, US
[71] BP CORPORATION NORTH AMERICA INC., US
[85] 2024-03-14
[86] 2022-10-05 (PCT/US2022/045738)
[87] (WO2023/059688)
[30] US (63/252,675) 2021-10-06

[21] **3,231,943**
[13] A1
[51] **Int.Cl. B65G 43/00 (2006.01) B65G 43/08 (2006.01) B65G 43/10 (2006.01)**
[25] EN
[54] **SUPPLY APPARATUS**
[54] **DISPOSITIF D'ALIMENTATION**
[72] FUJIHARA, HIROAKI, JP
[72] OHKAWA, YASUHIRO, JP
[72] TAKAISHI, IPPEI, JP
[72] MINAMINO, YUHI, JP
[72] ASANUMA, REIYA, JP
[71] KABUSHIKI KAISHA TOSHIBA, JP
[71] TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION, JP
[85] 2024-03-14
[86] 2022-09-14 (PCT/JP2022/034305)
[87] (WO2023/048032)
[30] JP (2021-153208) 2021-09-21

[21] **3,231,944**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-HUMAN CD45RC BINDING DOMAINS AND USES THEREOF**
[54] **DOMAINES DE LIAISON ANTI-CD45RC HUMAINE ET LEURS UTILISATIONS**
[72] GUILLONNEAU, CAROLE, FR
[72] ANEGON, IGNACIO, FR
[72] FAVRE-BULLE, OLIVIER, FR
[71] ABOLERIS PHARMA, FR
[71] NANTES UNIVERSITE, FR
[71] INSERM (INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE), FR
[85] 2024-03-14
[86] 2022-09-16 (PCT/EP2022/075794)
[87] (WO2023/041717)
[30] EP (21306283.9) 2021-09-16

[21] **3,231,945**
[13] A1
[51] **Int.Cl. A61K 38/12 (2006.01) A61K 38/04 (2006.01) C07K 5/04 (2006.01)**
[25] EN
[54] **THIOSTREPTON COMPOSITIONS AND PREPARATION THEREOF**
[54] **COMPOSITIONS DE THIOSTREPTON ET LEUR PREPARATION**
[72] DUNCAN, JARRETT B., US
[72] NAUMOV, GEORGE N., US
[72] THOMPSON, RODNEY E., US
[72] TORRES, ADRIA ESPINAS, ES
[72] OLLE, XAVIER PUJOL, ES
[72] SOROLLA, LLUIS SASTRE, ES
[71] RS ONCOLOGY, LLC, US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/043772)
[87] (WO2023/043982)
[30] EP (21382839.5) 2021-09-17

[21] **3,231,946**
[13] A1
[51] **Int.Cl. A61C 8/00 (2006.01)**
[25] EN
[54] **A DENTAL ABUTMENT FOR INTER-ORAL SCANNING OR FOR EXTRA-ORAL SCANNING**
[54] **BUTEE DENTAIRE POUR BALAYAGE INTER-ORAL OU EXTRA-ORAL**
[72] ANDERSEN, HENRIK, DK
[72] OLSEN, SOREN, DK
[72] INGEMANN, ANDREAS BAK, DK
[72] BUCH-LARSEN, NICHLAS HOLST, DK
[71] ELOS MEDTECH PINOL A/S, DK
[85] 2024-03-14
[86] 2022-09-16 (PCT/EP2022/075755)
[87] (WO2023/041700)
[30] EP (21197483.7) 2021-09-17

[21] **3,231,947**
[13] A1
[51] **Int.Cl. C02F 1/461 (2006.01)**
[25] EN
[54] **HYBRID ZERO-GAP ELECTROLYZER FOR THE TREATMENT OF AMMONIA IN WASTE WATER AND THE PRODUCTION OF PURE HYDROGEN GAS**
[54] **ELECTROLYSEUR HYBRIDE A ESPACE NUL POUR LE TRAITEMENT DE L'AMMONIAC DANS DES EAUX USEES ET LA PRODUCTION DE GAZ HYDROGENE PUR**
[72] INGELSSON, MARKUS, CA
[72] SHELP, GENE, CA
[71] CURRENT WATER TECHNOLOGIES INC., CA
[85] 2024-03-14
[86] 2022-09-20 (PCT/CA2022/051393)
[87] (WO2023/039680)
[30] US (63/245,717) 2021-09-17

[21] **3,231,948**
[13] A1
[51] **Int.Cl. C07D 487/04 (2006.01)**
[25] EN
[54] **FGFR INHIBITORS AND METHODS OF USE THEREOF**
[54] **INHIBITEURS DE FGFR ET LEURS PROCEDES D'UTILISATION**
[72] HU, JINGYU, CN
[72] FU, XIANLEI, CN
[72] LIU, YANCHAO, CN
[72] ZHANG, ZHIXIONG, CN
[72] ZHANG, WEIBO, CN
[72] HU, SHAOJING, US
[72] CHEN, KEVIN X, US
[71] 3H PHARMACEUTICALS CO., LTD., CN
[71] 3H (SUZHOU) PHARMACEUTICALS CO., LTD., CN
[85] 2024-03-14
[86] 2022-09-23 (PCT/CN2022/121076)
[87] (WO2023/046117)
[30] CN (PCT/CN2021/119861) 2021-09-23
[30] CN (PCT/CN2022/096894) 2022-06-02

[21] **3,231,949**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **OPTICAL FIBER RIBBON**
[54] **RUBAN DE FIBRES OPTIQUES**
[72] YAMASHITA, NORIAKI, JP
[72] ISHIDA, ITARU, JP
[72] OSATO, KEN, JP
[71] FUJIKURA LTD., JP
[85] 2024-03-14
[86] 2022-09-30 (PCT/JP2022/036649)
[87] (WO2023/058566)
[30] US (63/251,692) 2021-10-04

[21] **3,231,950**
[13] A1
[51] **Int.Cl. H01M 4/136 (2010.01) C08J 5/22 (2006.01) H01M 8/10 (2016.01)**
[25] EN
[54] **METAL FLUORIDE-FUNCTIONALIZED PROTON EXCHANGE SOLID SUPPORTS, MEMBRANES, AND IONOMERS**
[54] **SUPPORTS SOLIDES D'ECHANGE DE PROTONS FONCTIONNALISES PAR UN FLUORURE DE METAL, MEMBRANES ET IONOMERES**
[72] BHATTACHARYYA, SUKANTA, US
[72] SOBEK, DANIEL, US
[71] 1S1 ENERGY, INC., US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/043878)
[87] (WO2023/044056)
[30] US (63/245,614) 2021-09-17

[21] **3,231,951**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/444 (2006.01) C07D 401/04 (2006.01)**
[25] EN
[54] **POLYMORPH AND APPLICATION OF PYRIMIDINE DERIVATIVE AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**
[54] **POLYMORPHE ET APPLICATION DE DERIVE DE PYRIMIDINE ET SEL PHARMACEUTIQUEMENT ACCEPTABLE ASSOCIE**
[72] ZHAO, SHUANGNI, CN
[72] JIANG, TAOTAO, CN
[72] WANG, JIBIAO, CN
[72] TAO, TAO, CN
[71] SHANGHAI HAIYAN PHARMACEUTICAL TECHNOLOGY CO., LTD., CN
[71] YANGTZE RIVER PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2024-03-14
[86] 2022-09-14 (PCT/CN2022/118594)
[87] (WO2023/040863)
[30] CN (202111079644.0) 2021-09-15

[21] **3,231,952**
[13] A1
[51] **Int.Cl. G06F 1/16 (2006.01) G06Q 20/20 (2012.01) H04B 1/3877 (2015.01) G07F 7/08 (2006.01) H04M 1/04 (2006.01)**
[25] EN
[54] **POINT OF SALE DEVICE FOR MOBILE COMPUTING DEVICE**
[54] **DISPOSITIF DE POINT DE VENTE POUR DISPOSITIF INFORMATIQUE MOBILE**
[72] ANDLER, BRETT, US
[72] FERNANDEZ, JADE, US
[72] RAZAGHI, MANI, US
[72] BALAORO, MARVIN, US
[72] SCHULTZ, ROWAN, US
[72] TORAB, NIKA, US
[72] CHEN, YENLIANG, US
[72] BURROWS, NICHOLAS, US
[72] MACLENNAN, MICHAEL ALAN, US
[71] BLOCK, INC., US
[85] 2024-03-14
[86] 2022-10-18 (PCT/US2022/047028)
[87] (WO2023/069438)
[30] US (63/257,046) 2021-10-18

[21] **3,231,953**
[13] A1
[51] **Int.Cl. C07K 14/605 (2006.01) A61K 47/54 (2017.01) A61P 1/16 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR THE TREATMENT OF METABOLIC AND LIVER DISORDERS**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE TROUBLES METABOLIQUES ET HEPATIQUES**
[72] LIAN, BRIAN, US
[72] BARKER, GEOFFREY E., US
[72] YAGIZ, KADER, US
[72] BARNES, MAUREEN, US
[72] STEVENS, ERLAND, US
[71] VIKING THERAPEUTICS, INC., US
[85] 2024-03-14
[86] 2022-09-12 (PCT/US2022/076306)
[87] (WO2023/044290)
[30] US (63/244,406) 2021-09-15

[21] **3,231,954**
[13] A1
[51] **Int.Cl. A61B 5/0295 (2006.01) G16H 40/63 (2018.01) G16H 40/67 (2018.01) G16H 50/20 (2018.01) G16H 50/70 (2018.01) A61B 5/0507 (2021.01) A61B 5/029 (2006.01) A61B 5/113 (2006.01)**
[25] EN
[54] **SYSTEM FOR DETERMINING A PHYSIOLOGICAL PARAMETER OF A SUBJECT**
[54] **SYSTEME DE DETERMINATION D'UN PARAMETRE PHYSIOLOGIQUE D'UN SUJET**
[72] VAN DEN BERG, CORNELIS ANTONIUS THEODORUS, NL
[72] STEENSMA, BART R., NL
[71] UMC UTRECHT HOLDING B.V., NL
[85] 2024-03-14
[86] 2022-09-06 (PCT/EP2022/074751)
[87] (WO2023/041379)
[30] EP (21197565.1) 2021-09-17

[21] **3,231,955**
[13] A1
[51] **Int.Cl. C12N 9/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **COMPOSITION OF TRANSFER RNAS AND USE IN PRODUCTION OF PROTEINS CONTAINING NON-STANDARD AMINO ACIDS**
[54] **COMPOSITION D'ARN DE TRANSFERT ET UTILISATION DANS LA PRODUCTION DE PROTEINES CONTENANT DES ACIDES AMINES NON STANDARD**
[72] ZHANG, YI, US
[72] WEINSTOCK, MATTHEW, US
[72] GANDER, MILES, US
[71] ABSCI CORPORATION, US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/076575)
[87] (WO2023/044431)
[30] US (63/245,789) 2021-09-17

[21] **3,231,956**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) C01B 32/05 (2017.01) C01G 31/00 (2006.01) C22B 1/02 (2006.01) C22B 3/08 (2006.01) C22B 3/38 (2006.01) C22B 34/22 (2006.01) D01D 5/08 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MAKING CARBON FIBERS FROM ASPHALTENES**
[54] **COMPOSITIONS ET PROCEDES DE FABRICATION DE FIBRES DE CARBONE A PARTIR D'ASPHALTENES**
[72] ZENAITIS, MICHAEL, CA
[71] ENLIGHTEN INNOVATIONS INC., CA
[85] 2024-03-14
[86] 2022-09-19 (PCT/IB2022/058838)
[87] (WO2023/042175)
[30] US (63/245,513) 2021-09-17

[21] **3,231,957**
[13] A1
[51] **Int.Cl. A61K 38/17 (2006.01) A61P 31/16 (2006.01) C07K 14/47 (2006.01)**
[25] EN
[54] **ENGINEERED ANTIMICROBIAL PEPTIDES AND USAGE THEREOF**
[54] **PEPTIDES ANTIMICROBIENS MODIFIES ET LEUR UTILISATION**
[72] STECKBECK, JONATHAN D., US
[72] PICONE, BRADD N., US
[72] DOBBINS, DESPINA X., US
[71] PEPTILOGICS, INC., US
[85] 2024-03-14
[86] 2022-09-14 (PCT/US2022/076421)
[87] (WO2023/044339)
[30] US (63/245,770) 2021-09-17
[30] US (17/730,042) 2022-04-26

[21] **3,231,958**
[13] A1
[51] **Int.Cl. C07K 1/04 (2006.01) A61K 45/06 (2006.01) A61P 31/04 (2006.01) C07K 14/47 (2006.01) A61L 27/54 (2006.01) A61L 31/16 (2006.01)**
[25] EN
[54] **ENGINEERED ANTIMICROBIAL PEPTIDES AND USAGE THEREOF**
[54] **PEPTIDES ANTIMICROBIENS MODIFIES ET LEUR UTILISATION**
[72] STECKBECK, JONATHAN D., US
[72] PICONE, BRADD N., US
[72] DOBBINS, DESPINA X., US
[71] PEPTILOGICS, INC., US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/076560)
[87] (WO2023/044423)
[30] US (63/245,774) 2021-09-17

[21] **3,231,961**
[13] A1
[51] **Int.Cl. H04W 24/02 (2009.01) H04W 48/08 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR CONDITIONAL HANDOVER IN NON-TERRESTRIAL NETWORK**
[54] **PROCEDES ET APPAREILS POUR UN TRANSFERT INTERCELLULAIRE CONDITIONNEL DANS UN RESEAU NON TERRESTRE**
[72] WU, LIANHAI, CN
[72] YAN, LE, CN
[72] XU, MIN, CN
[72] DAI, MINGZENG, CN
[72] WANG, HAIMING, CN
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-15
[86] 2021-11-30 (PCT/CN2021/134571)
[87] (WO2023/097495)

[21] **3,231,971**
[13] A1
[51] **Int.Cl. E04B 2/90 (2006.01) E06B 5/20 (2006.01)**
[25] FR
[54] **GLAZED PANEL DEVICE AND ASSOCIATED INSTALLATION METHOD**
[54] **DISPOSITIF DE PANNEAU VITRE ET PROCEDE D'IMPLANTATION ASSOCIE**
[72] AKERIB, ANDRE, FR
[71] AKERIB, ANDRE, FR
[85] 2024-03-15
[86] 2022-08-16 (PCT/EP2022/072857)
[87] (WO2023/046372)
[30] FR (FR2110120) 2021-09-27

[21] **3,231,974**
[13] A1
[51] **Int.Cl. C25C 3/08 (2006.01)**
[25] EN
[54] **CATHODE ASSEMBLY OF AN ALUMINIUM REDUCTION CELL**
[54] **ASSEMBLAGE CATHODIQUE D'UNE CELLULE DE REDUCTION D'ALUMINIUM**
[72] BURTSEV, ALEKSEJ GENNAD'EVICH, RU
[72] GUSEV, ALEKSANDR OLEGOVICH, RU
[72] SKURATOV, SERGEJ VLADIMIROVICH, RU
[72] MANN, VIKTOR KHRIST'YANOVICH, RU
[71] OBSHCHESTVO S OGRANICHENNOY OTVETSTVENNOST'YU "OBEDINENNAYA KOMPANIYA RUSAL INZHENERNO-TEKHNOLOGICHESKIY TSENTR", RU
[85] 2024-03-15
[86] 2022-07-21 (PCT/RU2022/050227)
[87] (WO2023/043334)
[30] RU (2021127241) 2021-09-16

[21] **3,231,976**
[13] A1
[51] **Int.Cl. A61K 8/06 (2006.01) A61K 8/31 (2006.01) A61K 8/34 (2006.01) A61K 8/46 (2006.01) A61K 8/60 (2006.01) A61K 8/86 (2006.01)**
[25] EN
[54] **COMPOSITIONS, GARMENTS COMPRISING SAME AND METHODS FOR MOISTURISING SKIN**
[54] **COMPOSITIONS, VETEMENTS LES COMPRENANT ET PROCEDES D'HYDRATATION DE LA PEAU**
[72] SHARMA, MANUJ, IE
[72] MURPHY, NIALL, IE
[72] DUNNE, JAMES, IE
[71] QILTA LIMITED, IE
[85] 2024-03-15
[86] 2022-09-15 (PCT/EP2022/075672)
[87] (WO2023/041662)
[30] GB (2113271.7) 2021-09-16

[21] **3,231,980**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) B82Y 5/00 (2011.01) A61P 37/04 (2006.01) C07K 14/775 (2006.01) C12N 15/62 (2006.01)**
[25] EN
[54] **APOLIPOPROTEIN FUSION PROTEINS FOR CELL-SPECIFIC IMMUNE REGULATION**
[54] **PROTEINES DE FUSION D'APOLIPOPROTEINE POUR LA REGULATION IMMUNITAIRE SPECIFIQUE DE CELLULES**
[72] VAN DER MEEL, ROY, NL
[72] MULDER, WILLEM J.M., NL
[72] MERKX, MAARTEN, NL
[72] SCHRIJVER, DAVID PEPIJN, NL
[72] DE DREU, ANNE, NL
[72] HOKKE, AYLA MARTINE, NL
[72] DE BRUIN, KOEN, NL
[71] BIO-TRIP B.V., NL
[85] 2024-03-15
[86] 2022-09-23 (PCT/EP2022/076593)
[87] (WO2023/046931)
[30] EP (21198622.9) 2021-09-23

[21] **3,231,981**
[13] A1
[51] **Int.Cl. A61K 31/47 (2006.01) A61K 31/55 (2006.01) A61K 31/551 (2006.01) A61P 25/14 (2006.01)**
[25] EN
[54] **METHOD OF TREATING AMYOTROPHIC LATERAL SCLEROSIS**
[54] **PROCEDE DE TRAITEMENT DE LA SCLEROSE LATERALE AMYOTROPHIQUE**
[72] MACALLISTER, THOMAS, US
[72] JACOBSON, SVEN, US
[71] WOOLSEY PHARMACEUTICALS, INC., US
[85] 2024-03-15
[86] 2021-10-15 (PCT/US2021/055238)
[87] (WO2023/063959)

[21] **3,231,985**
[13] A1
[51] **Int.Cl. C11D 1/72 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE UNIT DOSE ARTICLE COMPRISING A NARROW RANGE ETHOXYLATED ALCOHOL NON-IONIC SURFACTANT**
[54] **ARTICLE EN DOSE UNITAIRE SOLUBLE DANS L'EAU COMPRENANT UN TENSIOACTIF NON IONIQUE D'ALCOOL ETHOXYLE A PLAGE ETROITE**
[72] DEBRECZENI, MATE, BE
[72] DEPOOT, KAREL JOZEF MARIA, BE
[72] KEULEERS, ROBBY RENILDE FRANCOIS, BE
[72] LABIE, JULIEN, BE
[72] VINSON, PHILLIP KYLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-15
[86] 2023-03-02 (PCT/US2023/063536)
[87] (WO2023/168307)
[30] EP (22159710.7) 2022-03-02

[21] **3,231,986**
[13] A1
[51] **Int.Cl. G01B 9/021 (2006.01) C12Q 1/04 (2006.01) C12Q 1/06 (2006.01) C12Q 1/18 (2006.01) G01N 33/48 (2006.01) G03H 1/04 (2006.01) G03H 1/26 (2006.01) G01N 21/45 (2006.01)**
[25] EN
[54] **LENS-FREE HOLOGRAPHIC OPTICAL SYSTEM FOR HIGH SENSITIVITY LABEL-FREE CELL AND MICROBIAL GROWTH DETECTION AND QUANTIFICATION**
[54] **SYSTEME OPTIQUE HOLOGRAPHIQUE SANS LENTILLE POUR UNE DETECTION ET UNE QUANTIFICATION A HAUTE SENSIBILITE DE CROISSANCE MICROBIENNE ET CELLULAIRE SANS MARQUEUR**
[72] PRISBEY, LANDON, US
[72] METZGER, STEVEN W., US
[72] GUSYATIN, OLEG, US
[71] ACCELERATE DIAGNOSTICS, INC., US
[85] 2024-03-15
[86] 2022-09-15 (PCT/US2022/043603)
[87] (WO2023/043884)
[30] US (63/245,698) 2021-09-17

[21] **3,231,987**
[13] A1
[51] **Int.Cl. C11D 1/72 (2006.01) C11D 1/825 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE UNIT DOSE ARTICLE COMPRISING AN ETHOXYLATED ALCOHOL NON-IONIC SURFACTANT**
[54] **ARTICLE EN DOSE UNITAIRE HYDROSOLUBLE COMPRENANT UN TENSIOACTIF NON IONIQUE D'ALCOOL ETHOXYLE**
[72] DEBRECZENI, MATE, BE
[72] DEPOOT, KAREL JOZEF MARIA, BE
[72] KEULEERS, ROBBY RENILDE FRANCOIS, BE
[72] LABIE, JULIEN, BE
[72] VINSON, PHILLIP KYLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-15
[86] 2023-03-02 (PCT/US2023/063537)
[87] (WO2023/168308)
[30] EP (22159621.6) 2022-03-02

[21] **3,231,988**
[13] A1
[51] **Int.Cl. C07D 491/18 (2006.01) A61P 35/02 (2006.01) C07D 491/22 (2006.01) C07F 9/6561 (2006.01)**
[25] EN
[54] **AZAINDAZOLE MACROCYCLE COMPOUND AND USE THEREOF**
[54] **COMPOSE MACROCYCLE AZAINDAZOLE ET SON UTILISATION**
[72] DUAN, GONGPING, CN
[72] ZHANG, XINGMIN, CN
[72] LI, MIN, CN
[71] BROADENBIO CO., LTD, CN
[85] 2024-03-15
[86] 2022-09-16 (PCT/CN2022/119179)
[87] (WO2023/040996)
[30] CN (202111098709.6) 2021-09-18

[21] **3,231,993**
[13] A1
[51] **Int.Cl. A23C 9/144 (2006.01) A23C 9/142 (2006.01)**
[25] EN
[54] **A METHOD OF PRODUCING MINERALISED, LACTOSE-REDUCED MILK PRODUCT AND THE MILK PRODUCT RESULTING FROM THE METHOD**
[54] **PROCEDE DE PRODUCTION D'UN PRODUIT LAITIER MINERALISE A TENEUR REDUITE EN LACTOSE ET PRODUIT LAITIER OBTENU PAR LE PROCEDE**
[72] RAUH, VALENTIN, DK
[72] CRAFACK, MICHAEL, DK
[72] SUWAL, SHYAM KRISHNA, DK
[72] YAZDI, SAEED RAHIMI, DK
[71] ARLA FOODS AMBA, DK
[85] 2024-03-15
[86] 2022-10-06 (PCT/EP2022/077842)
[87] (WO2023/057585)
[30] EP (21201319.7) 2021-10-06

[21] **3,231,994**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/10 (2020.01)**
[25] EN
[54] **A SMOKING SUBSTITUTE DEVICE**
[54] **DISPOSITIF DE SUBSTITUTION A FUMER**
[72] AGGARWAL, NIKHIL, GB
[72] JOHNSON, DEREK, GB
[71] IMPERIAL TOBACCO LIMITED, GB
[85] 2024-03-15
[86] 2022-09-12 (PCT/EP2022/075289)
[87] (WO2023/041485)
[30] EP (21197530.5) 2021-09-17

[21] **3,231,995**
[13] A1
[51] **Int.Cl. F16B 19/02 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR FASTENING FACADE PANELS**
[54]
[72] HEINRICH, KOSTJA, DE
[72] PITZ, MICHAEL, DE
[71] EJOT SE & CO. KG, DE
[85] 2024-03-15
[86] 2022-09-19 (PCT/EP2022/075935)
[87] (WO2023/046625)
[30] DE (10 2021 210 631.5) 2021-09-23

[21] **3,231,996**
[13] A1
[51] **Int.Cl. A61K 31/519 (2006.01) A61P 35/00 (2006.01) C07D 231/16 (2006.01) C07F 5/05 (2006.01)**
[25] EN
[54] **AN IMPROVED PROCESS FOR THE PREPARATION OF RUXOLITINIB PHOSPHATE**
[54] **PROCEDE AMELIORE POUR LA PREPARATION DE PHOSPHATE DE RUXOLITINIB**
[72] HANUMARA, SATYA SRINIVAS, IN
[72] BUDIDETI, SHANKAR REDDY, IN
[72] KONDURI, SRINIVASA KRISHNA MURTHY, IN
[72] KOTHAMUNIREDDY GARI, SUNITHA, IN
[72] SOLIPURAM, RAJI REDDY, IN
[72] KASUGANTI, JAYAKRISHNA, IN
[72] ANNADASU, ANKAMA NAYUDU, IN
[72] BANDLA, VENKATESWARLU, IN
[72] MADDULA, LAKSHMANA VISWA VENKATA PAVAN KUMAR, IN
[72] MUDDASANI, PULLA REDDY, IN
[72] NANNAPANENI, VENKAIAH CHOWDARY, IN
[71] NATCO PHARMA LIMITED, IN
[85] 2024-03-15
[86] 2022-09-16 (PCT/IN2022/050830)
[87] (WO2023/042224)
[30] IN (202141042309) 2021-09-18

[21] **3,231,998**
[13] A1
[51] **Int.Cl. H01M 10/052 (2010.01) H01M 4/505 (2010.01)**
[25] EN
[54] **METHOD FOR PREPARING ELECTROLYTIC MANGANESE DIOXIDE**
[54] **PROCEDE DE PREPARATION DE DIOXYDE DE MANGANESE ELECTROLYTIQUE**
[72] JEGADEN, LAURIE I., US
[72] STORY, PHILLIP M., US
[71] EMD ACQUISITION LLC, US
[85] 2024-03-15
[86] 2022-09-09 (PCT/US2022/043048)
[87] (WO2023/043668)
[30] US (63/244,597) 2021-09-15

[21] **3,232,000**
[13] A1
[51] **Int.Cl. C22B 7/00 (2006.01) C01G 31/00 (2006.01) C22B 1/02 (2006.01) C22B 3/08 (2006.01) C22B 3/38 (2006.01) C22B 34/22 (2006.01) H01M 8/18 (2006.01)**
[25] EN
[54] **METHODS OF RECOVERING VANADIUM IN THE FORM OF A VANADIUM ELECTROLYTE AND USES THEREOF**
[54] **PROCEDES DE RECUPERATION DE VANADIUM SOUS LA FORME D'UN ELECTROLYTE AU VANADIUM ET UTILISATIONS ASSOCIEES**
[72] LIU, JIABIN, CA
[72] HUSAIN, TAHIR (DECEASED), XX
[71] MEMORIAL UNIVERSITY OF NEWFOUNDLAND, CA
[85] 2024-03-15
[86] 2022-09-14 (PCT/CA2022/051371)
[87] (WO2023/039668)
[30] US (63/261,219) 2021-09-15

[21] **3,232,001**
[13] A1
[51] **Int.Cl. B01D 69/12 (2006.01) B01D 71/02 (2006.01)**
[25] EN
[54] **METHODS OF FABRICATING CURVED TWO-DIMENSIONAL MEMBRANES AND MEMBRANES THEREOF**
[54] **PROCEDES DE FABRICATION DE MEMBRANES BIDIMENSIONNELLES INCURVEES ET MEMBRANES ASSOCIEES**
[72] ANDREEVA-BAEUMLER, DARIA, SG
[72] NOVOSELOV, KONSTANTIN, SG
[71] NATIONAL UNIVERSITY OF SINGAPORE, SG
[85] 2024-03-15
[86] 2022-09-16 (PCT/SG2022/050667)
[87] (WO2023/043376)
[30] SG (10202110288S) 2021-09-17

[21] **3,232,002**
[13] A1
[51] **Int.Cl. A61K 31/5575 (2006.01) A61K 31/573 (2006.01) A61K 45/06 (2006.01) A61P 27/02 (2006.01) A61P 27/06 (2006.01)**
[25] EN
[54] **NITRIC OXIDE RELEASING PROSTAMIDE AS NEUROPROTECTIVE AGENT**
[54] **PROSTAMIDE LIBERANT DE L'OXYDE NITRIQUE UTILISE COMME AGENT NEUROPROTECTEUR**
[72] IMPAGNATIELLO, FRANCESCO, IT
[72] BASTIA, ELENA, IT
[71] NICOX S.A., FR
[85] 2024-03-15
[86] 2021-09-20 (PCT/EP2021/075786)
[87] (WO2023/041182)

[21] **3,232,003**
[13] A1
[51] **Int.Cl. C08K 5/3492 (2006.01) C08K 5/10 (2006.01) C08K 5/132 (2006.01) C08K 5/20 (2006.01) C08K 5/315 (2006.01) C08K 5/3475 (2006.01) C08K 5/357 (2006.01) C08L 23/12 (2006.01) C08L 27/06 (2006.01) C08L 33/12 (2006.01) C08L 55/02 (2006.01) C08L 59/02 (2006.01) C08L 77/00 (2006.01)**
[25] EN
[54] **STABILIZER FORMULATION**
[54] **FORMULATION DE STABILISANT**
[72] WEYLAND, TANIA, CH
[72] MUELLER, DANIEL, CH
[72] SIGLER, JOHN, US
[72] HERBST, HEINZ, CH
[72] DABBOUS, RAPHAEL, CH
[71] BASF SE, DE
[85] 2024-03-15
[86] 2022-09-16 (PCT/EP2022/075738)
[87] (WO2023/041690)
[30] EP (21197083.5) 2021-09-16

[21] **3,232,004**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/245 (2006.01) A61P 31/22 (2006.01) C12N 7/00 (2006.01)**
[25] EN
[54] **"IMMUNOGENIC COMPOSITIONS AND USES THEREOF"**
[54] **COMPOSITIONS IMMUNOGENES ET LEURS UTILISATIONS**
[72] KHANA, RAJIV, AU
[72] DASARI, VIJAYENDRA, AU
[71] THE COUNCIL OF THE QUEENSLAND INSTITUTE OF MEDICAL RESEARCH, AU
[85] 2024-03-15
[86] 2022-09-16 (PCT/AU2022/051120)
[87] (WO2023/039638)
[30] AU (2021902988) 2021-09-16

[21] **3,232,006**
[13] A1
[51] **Int.Cl. H04L 5/00 (2006.01)**
[25] EN
[54] **IMPROVING PERFORMANCE FOR CELLULAR COMMUNICATION WITH REDUCED BANDWIDTH**
[54] **AMELIORATION DE LA PERFORMANCE DE COMMUNICATIONS CELLULAIRES AVEC UNE LARGEUR DE BANDE REDUITE**
[72] TIIROLA, ESA TAPANI, FI
[72] HOOLI, KARI JUHANI, FI
[72] HAKOLA, SAMI-JUKKA, FI
[72] KAIKKONEN, JORMA JOHANNES, FI
[72] KINNUNEN, PASI EINO TAPIO, FI
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2024-03-15
[86] 2021-09-17 (PCT/EP2021/075607)
[87] (WO2023/041172)

[21] **3,232,007**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61K 39/215 (2006.01) C07K 14/165 (2006.01) C12N 15/79 (2006.01) A61P 31/14 (2006.01) C07K 16/10 (2006.01)**
[25] EN
[54] **PANCORONAVIRUS VACCINES**
[54] **VACCINS CONTRE LE PANCORONAVIRUS**
[72] GITLIN, LEONID, US
[72] JOOSS, KARIN, US
[72] HONG, SUE-JEAN, US
[72] SCALLAN, CIARAN DANIEL, US
[72] RAPPAPORT, AMY RACHEL, US
[72] PALMER, CHRISTINE DENISE, US
[72] CAO, MINH DUC, US
[72] KLEIN, JOSHUA, US
[71] GRITSTONE BIO, INC., US
[85] 2024-03-15
[86] 2022-10-03 (PCT/US2022/077488)
[87] (WO2023/056483)
[30] US (63/251,441) 2021-10-01
[30] US (63/374,664) 2022-09-06

[21] **3,232,008**
[13] A1
[51] **Int.Cl. B22F 3/11 (2006.01) B33Y 80/00 (2015.01) B22F 10/28 (2021.01) B22F 10/68 (2021.01)**
[25] FR
[54] **ARCHITECTED THREE-DIMENSIONAL POROUS MATERIAL**
[54] **MATERIAU POREUX TRIDIMENSIONNEL ARCHITECTURE.**
[72] ESCALIER, STEPHANE, FR
[72] ESCALIER, ISABELLE, FR
[71] ORIGINAL CUSTOM COMPONENTS, FR
[85] 2024-03-15
[86] 2022-09-13 (PCT/EP2022/075388)
[87] (WO2023/037002)
[30] FR (FR2109568) 2021-09-13

[21] **3,232,009**
[13] A1
[51] **Int.Cl. F41C 33/02 (2006.01) F41C 33/04 (2006.01) G01D 5/14 (2006.01) G08B 21/24 (2006.01)**
[25] EN
[54] **HOLSTER SENSING BY A CONDUCTED ELECTRICAL WEAPON**
[54] **DETECTION D'ETUI PAR UNE ARME A IMPULSIONS ELECTRIQUES**
[72] NERHEIM, MAGNE H., US
[72] GISH, MICHAEL E., US
[72] KERN, LYNN, US
[72] EASTWOOD, MARK J., US
[71] AXON ENTERPRISE, INC., US
[85] 2024-03-15
[86] 2022-09-15 (PCT/US2022/043725)
[87] (WO2023/043965)
[30] US (63/244,659) 2021-09-15

[21] **3,232,012**
[13] A1
[51] **Int.Cl. B60Q 1/14 (2006.01) F21S 4/28 (2016.01) F21S 41/141 (2018.01) F21S 41/663 (2018.01) F21V 23/04 (2006.01)**
[25] EN
[54] **ADAPTIVE DRIVING LIGHT SYSTEM**
[54] **SYSTEME ADAPTATIF DE COMMANDE DE LUMIERE**
[72] GRABOVIC, JOSHUA, AU
[71] BROWN & WATSON INTERNATIONAL PTY LTD, AU
[85] 2024-03-15
[86] 2022-09-16 (PCT/AU2022/051116)
[87] (WO2023/039635)
[30] AU (2021902994) 2021-09-17

[21] **3,232,014**
[13] A1
[51] **Int.Cl. B25J 5/00 (2006.01)**
[25] FR
[54] **NEW ARCHITECTURE FOR A MOBILE ROBOTIC SYSTEM**
[54] **NOUVELLE ARCHITECTURE DE SYSTEME ROBOTISE MOBILE**
[72] LE MAREC, TITOUAN, FR
[71] NIMBLE ONE, FR
[85] 2024-03-15
[86] 2022-09-14 (PCT/EP2022/075544)
[87] (WO2023/041592)
[30] FR (2109688) 2021-09-15

[21] **3,232,016**
[13] A1
[51] **Int.Cl. A01K 55/00 (2006.01)**
[25] EN
[54] **DEVICE FOR LIFTING FRAMES OF A MAGAZINE HIVE FOR BEEKEEPING**
[54] **DISPOSITIF POUR SOULEVER LES CADRES D'UNE RUCHE VERTICALEMENT MODULAIRE POUR L'APICULTURE**
[72] SENFT, THOMAS, AT
[71] SENFT, THOMAS, AT
[85] 2024-03-15
[86] 2022-08-09 (PCT/EP2022/072366)
[87] (WO2023/051983)
[30] EP (21199776.2) 2021-09-29

[21] **3,232,017**
[13] A1
[51] **Int.Cl. G06Q 50/16 (2024.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **EVALUATION AND COMPARISON SYSTEM**
[54] **SYSTEME D'EVALUATION ET DE COMPARAISON**
[72] BATRA, AMIT, GB
[71] BATRA, AMIT, GB
[85] 2024-03-15
[86] 2022-09-16 (PCT/GB2022/052363)
[87] (WO2023/041936)
[30] GB (2113243.6) 2021-09-16

[21] **3,232,019**
[13] A1
[51] **Int.Cl. G08B 21/18 (2006.01)**
[25] EN
[54] **HEAT-NOT-BURN ACTIVITY DETECTION DEVICE, SYSTEM AND METHOD**
[54] **DISPOSITIF, SYSTEME ET PROCEDE DE DETECTION D'ACTIVITE DE CHAUFFE SANS COMBUSTION**
[72] JACOVINO, FRANK L., US
[72] GALBURT, PAUL, US
[72] PLUNKETT, JOHN B., US
[72] ANTAR, DAVID, US
[71] HALO SMART SOLUTIONS, INC., US
[85] 2024-03-15
[86] 2022-03-16 (PCT/US2022/020573)
[87] (WO2023/048766)
[30] US (17/481,615) 2021-09-22

[21] **3,232,021**
[13] A1
[51] **Int.Cl. A61F 2/14 (2006.01)**
[25] EN
[54] **INTRACORNEAL OPTICAL IMPLANT**
[54] **IMPLANT OPTIQUE INTRACORNEEN**
[72] BUSIN, MASSIMO, IT
[72] ELIACHAR, ELIAHU, IL
[72] YU, ANGELI CHRISTY, PH
[72] LILACH, NIR, IL
[72] LAVAN, RON MICHAEL, IL
[71] IN-KER S.R.L., IT
[85] 2024-03-15
[86] 2022-09-16 (PCT/EP2022/075851)
[87] (WO2023/041747)
[30] US (63/245,384) 2021-09-17
[30] US (63/351,480) 2022-06-13

[21] **3,232,023**
[13] A1
[51] **Int.Cl. A61B 17/3209 (2006.01) A61B 90/30 (2016.01) A61B 17/3207 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PERCUTANEOUS DIVISION OF FIBROUS STRUCTURES WITH VISUAL CONFIRMATION**
[54] **SYSTEMES ET PROCEDES DE DIVISION PERCUTANEE DE STRUCTURES FIBREUSES AVEC CONFIRMATION VISUELLE**
[72] AKLOG, LISHAN, US
[72] DEGUZMAN, BRIAN J., US
[72] YAZBECK, RICHARD, US
[72] PELLETIER, JIM, US
[72] OWEN, KEVIN, US
[72] MOULTON, TIMOTHY L., US
[72] BENSEL, TAYLOR, US
[72] DOHERTY, MARK, US
[72] DIXON, ADAM, US
[71] PAVMED INC., US
[85] 2024-03-15
[86] 2022-09-27 (PCT/US2022/077071)
[87] (WO2023/049923)
[30] US (63/248,578) 2021-09-27

[21] **3,232,025**
[13] A1
[51] **Int.Cl. H01M 10/48 (2006.01) G01R 31/389 (2019.01)**
[25] EN
[54] **GAS DETECTION METHOD AND GAS DETECTION DEVICE**
[54] **PROCEDE DE DETECTION DE GAZ ET APPAREIL DE DETECTION DE GAZ**
[72] KINOSHITA, HAJIME, JP
[72] KURIYAMA, MAYUMI, JP
[71] OSAKA GAS CO., LTD., JP
[71] KRI, INC., JP
[85] 2024-03-15
[86] 2023-02-16 (PCT/JP2023/005446)
[87] (WO2023/176288)
[30] JP (2022-043908) 2022-03-18

[21] **3,232,026**
[13] A1
[51] **Int.Cl. C01B 33/24 (2006.01) C04B 22/08 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING CALCINED PRODUCT CONTAINING .GAMMA.-2CAO-SIO2**
[54] **PROCEDE DE FABRICATION D'OBJET CUIT COMPRENANT UN .GAMMA.-2CAO-SIO2**
[72] OTA, MASAMI, JP
[71] TOKUYAMA CORPORATION, JP
[85] 2024-03-15
[86] 2022-10-07 (PCT/JP2022/037543)
[87] (WO2023/063236)
[30] JP (2021-167984) 2021-10-13

[21] **3,232,027**
[13] A1
[51] **Int.Cl. H04B 10/112 (2013.01) H04B 10/114 (2013.01) G08C 23/04 (2006.01) G08C 23/06 (2006.01)**
[25] EN
[54] **GIMBALLESS QUASI-OMNI OPTICAL COMMUNICATION TRANSCEIVER**
[54] **EMETTEUR-RECEPTEUR DE COMMUNICATION OPTIQUE QUASI-OMNIDIRECTIONNEL SANS CARDAN**
[72] HEMMATI, HAMID, US
[71] VIASAT, INC., US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043869)
[87] (WO2023/044049)
[30] US (63/245,714) 2021-09-17

[21] **3,232,028**
[13] A1
[51] **Int.Cl. A61K 9/06 (2006.01) A61K 31/575 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61P 17/00 (2006.01) A61P 29/00 (2006.01)**
[25] EN
[54] **GEL COMPOSITION FOR PREVENTING OR TREATING ATOPIC DERMATITIS**
[54] **COMPOSITION DE GEL POUR LA PREVENTION OU LE TRAITEMENT DE LA DERMATITE ATOPIQUE**
[72] SEONG, SEUNG YONG, KR
[72] LEE, EUN HO, KR
[71] SHAPERON INC., KR
[85] 2024-03-15
[86] 2022-09-15 (PCT/KR2022/013781)
[87] (WO2023/043219)
[30] KR (10-2021-0122994) 2021-09-15

[21] **3,232,031**
[13] A1
[51] **Int.Cl. A61B 5/02 (2006.01) A61B 7/04 (2006.01) A61B 8/02 (2006.01) H04R 1/00 (2006.01) A61B 5/259 (2021.01) H03H 9/15 (2006.01) H03H 9/24 (2006.01)**
[25] EN
[54] **SENSING PHYSIOLOGICAL ACTIVITY**
[54] **DETECTION D'ACTIVITE PHYSIOLOGIQUE**
[72] KAMLER, JONATHAN, US
[71] KAMLER, JONATHAN, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/076524)
[87] (WO2023/044404)
[30] US (63/245,594) 2021-09-17
[30] US (17/592,300) 2022-02-03

[21] **3,232,032**
[13] A1
[51] **Int.Cl. G01R 31/392 (2019.01) H01M 10/48 (2006.01)**
[25] EN
[54] **DETERIORATION-STATE PREDICTION METHOD, DETERIORATION-STATE PREDICTION APPARATUS, AND DETERIORATION-STATE PREDICTION PROGRAM**
[54]
[72] MIZOGUCHI, YASUNORI, JP
[72] HAYANO, AKIHITO, JP
[72] KINOSHITA, HAJIME, JP
[71] OSAKA GAS CO., LTD., JP
[71] KRI, INC., JP
[85] 2024-03-15
[86] 2023-03-07 (PCT/JP2023/008593)
[87] (WO2023/176592)
[30] JP (2022-043907) 2022-03-18

[21] **3,232,034**
[13] A1
[51] **Int.Cl. A61F 5/453 (2006.01) A61F 5/455 (2006.01)**
[25] EN
[54] **FLUID COLLECTION ASSEMBLIES INCLUDING A POROUS MATERIAL HAVING A FIRST POROUS LAYER, A SECOND POROUS LAYER, AND A SUPPORTING LAYER**
[54] **ENSEMBLES DE COLLECTE DE FLUIDE COMPRENANT UN MATERIAU POREUX AYANT UNE PREMIERE COUCHE POREUSE, UNE SECONDE COUCHE POREUSE ET UNE COUCHE DE SUPPORT**
[72] YIN, ZHIHUI, US
[72] SZYMANIAK, KAMIL, US
[72] DAVIS, KATHLEEN, US
[72] ANDERSON, MICHAEL, US
[72] TAN-FAHED, BRENDAN, US
[71] PUREWICK CORPORATION, US
[85] 2024-03-15
[86] 2022-09-20 (PCT/US2022/044107)
[87] (WO2023/049109)
[30] US (63/247,491) 2021-09-23

[21] **3,232,036**
[13] A1
[51] **Int.Cl. B01D 21/02 (2006.01) B01D 21/24 (2006.01) C02F 1/00 (2006.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND DEVICES FOR REMOVING CONTAMINANTS FROM STORMWATER**
[54] **SYSTEMES, PROCEDES, ET DISPOSITIFS POUR ELIMINER DES CONTAMINANTS DES EAUX DE PLUIE**
[72] WILLIAMS, GREGORY, US
[72] FAJMAN, DAN, US
[72] MORAN, ROBERT J., US
[72] MATTESON, LUKE, US
[71] STORMTRAP, LLC, US
[85] 2024-03-15
[86] 2021-12-01 (PCT/US2021/072664)
[87] (WO2023/043479)
[30] US (17/477,274) 2021-09-16

[21] **3,232,037**
[13] A1
[51] **Int.Cl. C12N 5/0783 (2010.01) A61K 35/17 (2015.01) A61K 35/12 (2015.01) A61K 39/00 (2006.01) A61P 37/06 (2006.01)**
[25] EN
[54] **METHODS OF TREATMENT**
[54] **METHODES DE TRAITEMENT**
[72] OOI, JOSHUA DANIEL, AU
[72] EGGENHUIZEN, PETER JAMES, AU
[72] MORAND, ERIC, AU
[71] MONASH UNIVERSITY, AU
[85] 2024-03-11
[86] 2022-09-21 (PCT/AU2022/051136)
[87] (WO2023/044530)
[30] AU (2021903030) 2021-09-21

[21] **3,232,038**
[13] A1
[51] **Int.Cl. G16H 40/63 (2018.01) G16H 50/20 (2018.01)**
[25] EN
[54] **DEVICE AND SYSTEM FOR DETECTING HEART RHYTHM ABNORMALITIES**
[54] **DISPOSITIF ET SYSTEME POUR DETECTER DES ANOMALIES DU RYTHME CARDIAQUE**
[72] MCGRATH, OISIN, IE
[72] MCDAID, EDDIE, IE
[72] CONWAY, PATRICK, IE
[72] BRUZZI, MARK, IE
[72] DOGAN, GURKAN, IE
[71] NATIONAL UNIVERSITY OF IRELAND, IE
[85] 2024-03-15
[86] 2022-03-29 (PCT/EP2022/058343)
[87] (WO2023/046323)
[30] EP (PCT/EP2021/076129) 2021-09-22

[21] **3,232,039**
[13] A1
[51] **Int.Cl. B29C 65/36 (2006.01)**
[25] EN
[54] **METHOD FOR ELECTROMAGNETIC WELDING OF MOLDED PARTS**
[54] **PROCEDE DE SOUDAGE ELECTROMAGNETIQUE DE PIECES MOULEES**
[72] BRUIJKERS, MICHIEL HENDRIK PAUL, NL
[72] LABORDUS, MAARTEN, NL
[71] KOK & VAN ENGELEN COMPOSITE STRUCTURES B.V., NL
[85] 2024-03-15
[86] 2022-09-15 (PCT/NL2022/050519)
[87] (WO2023/043310)
[30] NL (2029204) 2021-09-17

[21] **3,232,040**
[13] A1
[51] **Int.Cl. B60R 11/00 (2006.01)**
[25] EN
[54] **WIRE/RING SECONDARY RETENTION SYSTEM FOR OPTICAL AND OTHER MEMBERS**
[54] **SYSTEME DE RETENUE SECONDAIRE DE FIL/ANNEAU POUR ELEMENTS OPTIQUES ET AUTRES**
[72] ROZITIS, PETER, CA
[72] DE AGUIAR, ANTHONY, CA
[71] RAYTHEON CANADA LIMITED, CA
[85] 2024-03-14
[86] 2022-09-09 (PCT/CA2022/051351)
[87] (WO2023/044557)
[30] US (63/246,787) 2021-09-21

[21] **3,232,042**
[13] A1
[51] **Int.Cl. G16H 50/20 (2018.01) G16H 50/70 (2018.01) G06N 20/00 (2019.01)**
[25] EN
[54] **A METHOD AND SYSTEM DETECTING A HEALTH ABNORMALITY IN A LIQUID BIOPSY SAMPLE**
[54] **PROCEDE ET SYSTEME DE DETECTION D'UNE ANOMALIE DE SANTE DANS UN ECHANTILLON DE BIOPSIE LIQUIDE**
[72] LIU, JIAN RUI, CA
[72] HALNER, ANDREAS, GB
[71] OXFORD CANCER ANALYTICS (OXCAN), GB
[85] 2024-03-14
[86] 2022-09-15 (PCT/EP2022/075710)
[87] (WO2023/041676)
[30] US (63/244,293) 2021-09-15

[21] **3,232,043**
[13] A1
[51] **Int.Cl. A63H 18/14 (2006.01)**
[25] EN
[54] **SYSTEM FOR MOVING OBJECTS ON A CLOSED PATH**
[54] **SYSTEME PERMETTANT DE DEPLACER DES OBJETS SUR UN TRAJET FERME**
[72] PISANO, ROBERTO, IT
[72] RICCADONNA, GIANCARLO, IT
[71] PISANO, ROBERTO, IT
[71] RICCADONNA, GIANCARLO, IT
[85] 2024-03-15
[86] 2023-02-08 (PCT/IB2023/051117)
[87] (WO2023/161751)
[30] IT (102022000003386) 2022-02-23

[21] **3,232,044**
[13] A1
[51] **Int.Cl. G06Q 50/06 (2012.01) H02J 3/00 (2006.01) H02J 3/12 (2006.01)**
[25] EN
[54] **POWER DISTRIBUTION CONTROL**
[54] **COMMANDE DE DISTRIBUTION DE COURANT**
[72] MARTINEZ, JORGE ELIZONDO, US
[71] HEILA TECHNOLOGIES, INC., US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043895)
[87] (WO2023/044069)
[30] US (63/244,792) 2021-09-16

[21] **3,232,045**
[13] A1
[51] **Int.Cl. A61B 17/02 (2006.01) A61B 34/20 (2016.01) A61B 17/34 (2006.01)**
[25] EN
[54] **SURGICAL INTRODUCER WITH GUIDANCE SYSTEM RECEPTACLE**
[54] **INTRODUCTEUR CHIRURGICAL COMPORTANT UN RECEPTACLE DE SYSTEME DE GUIDAGE**
[72] SCHAEFER, ROBERT, US
[71] VYCOR MEDICAL, INC., US
[85] 2024-03-15
[86] 2022-09-13 (PCT/US2022/043282)
[87] (WO2023/039271)
[30] US (17/473,282) 2021-09-13

[21] **3,232,046**
[13] A1
[51] **Int.Cl. G01C 23/00 (2006.01) G01S 13/92 (2006.01)**
[25] EN
[54] **SPEED AND LANDING ZONE MANAGEMENT SYSTEM**
[54] **SYSTEME DE GESTION DE VITESSE ET DE ZONE D'ATTERRISSAGE**
[72] PEDROTTI, CHRISTOPHER L., US
[71] PRECISION APPROACH LLC, US
[85] 2024-03-15
[86] 2022-09-19 (PCT/US2022/043971)
[87] (WO2023/044102)
[30] US (63/245,826) 2021-09-18
[30] US (63/320,392) 2022-03-16

[21] **3,232,047**
[13] A1
[51] **Int.Cl. B01L 9/00 (2006.01)**
[25] EN
[54] **ACCESSORY FOR A PLATE OF A MICROFLUIDIC EXPERIMENTATION DEVICE, AND MICROFLUIDIC EXPERIMENTATION DEVICE**
[54] **ACCESSOIRE POUR PLATINE D'UN DISPOSITIF D'EXPERIMENTATION MICROFLUIDIQUE ET DISPOSITIF D'EXPERIMENTATION MICROFLUIDIQUE**
[72] VAN LOO, STEPHANIE, BE
[71] GESVAL SA, BE
[85] 2024-03-15
[86] 2022-09-21 (PCT/EP2022/076278)
[87] (WO2023/046783)

[21] **3,232,048**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01)**
[25] EN
[54] **METHOD FOR DETERMINING KEY OBTAINING MANNER, COMMUNICATION METHOD, AND COMMUNICATION APPARATUS**
[54] **PROCEDE DE DETERMINATION DE MODE D'ACQUISITION DE CLE, PROCEDE DE COMMUNICATION, ET APPAREIL DE COMMUNICATION**
[72] LEI, AO, CN
[72] LI, HE, CN
[72] WU, YIZHUANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-15
[86] 2022-09-08 (PCT/CN2022/117689)
[87] (WO2023/040732)
[30] CN (202111089119.7) 2021-09-16

[21] **3,232,049**
[13] A1
[51] **Int.Cl. B65D 41/34 (2006.01) B65D 47/12 (2006.01) B65D 35/44 (2006.01)**
[25] EN
[54] **TAMPER-EVIDENT CAP**
[54] **CAPUCHON INVIOLABLE**
[72] VAN DEN HOONAARD, PAUL, US
[72] GOSLING, STEVE, US
[72] WALTERS, PETER J., US
[72] WILLIAMSON, DAVID, US
[71] CHEER PACK NORTH AMERICA LLC, US
[85] 2024-03-15
[86] 2022-08-04 (PCT/US2022/039426)
[87] (WO2023/043545)
[30] US (17/477,776) 2021-09-17

[21] **3,232,050**
[13] A1
[51] **Int.Cl. C07D 457/12 (2006.01)**
[25] EN
[54] **ERGOLINE-DERIVED AGONISTS OF THE 5-HT2A RECEPTOR**
[54] **AGONISTES DERIVES D'ERGOLINE DU RECEPTEUR 5-HT2A**
[72] ISAAC, METHVIN, CA
[71] DIAMOND THERAPEUTICS INC., CA
[85] 2024-03-15
[86] 2022-10-25 (PCT/IB2022/000629)
[87] (WO2023/073423)
[30] US (63/272,082) 2021-10-26

[21] **3,232,051**
[13] A1
[51] **Int.Cl. G01N 33/532 (2006.01)**
[25] EN
[54] **A CHEMOSELECTIVE ELECTROCATALYTIC BIOCONJUGATION REACTION AND USES THEREOF**
[54] **REACTION DE BIOCONJUGAISON ELECTROCATALYTIQUE CHIMIOSELECTIVE ET SES UTILISATIONS**
[72] CHATTERJEE, ABHISHEK, US
[72] LOYND, CONOR, US
[72] ROY, SOUMYA JYOTI SINGHA, US
[71] TRUSTEES OF BOSTON COLLEGE, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/076536)
[87] (WO2023/044413)
[30] US (63/245,369) 2021-09-17

[21] **3,232,052**
[13] A1
[51] **Int.Cl. G01S 5/02 (2010.01) H04W 24/10 (2009.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR CONCURRENT ENVIRONMENT SENSING AND DEVICE SENSING**
[54] **PROCEDES ET APPAREILS DE DETECTION CONCOMITANTE D'ENVIRONNEMENTS ET DE DISPOSITIFS**
[72] BAYESTEH, ALIREZA, CA
[72] SHABAN, AHMED WAGDY, CA
[72] TADAYON, NAVID, CA
[72] MA, JIANGLEI, CA
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-15
[86] 2021-09-18 (PCT/CN2021/119471)
[87] (WO2023/039915)

[21] **3,232,053**
[13] A1
[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61K 47/61 (2017.01) C07H 21/00 (2006.01)**
[25] EN
[54] **NUCLEIC ACIDS CONTAINING ABASIC NUCLEOSIDES**
[54] **ACIDES NUCLEIQUES CONTENANT DES NUCLEOSIDES ABASIQUES**
[72] MCCARTHY, AMY, GB
[72] CRAGGS, GRAHAM, GB
[72] LONGDEN, JAMES, GB
[72] DE SANTIAGO, INES, GB
[72] BROWN, DUNCAN, GB
[72] ALI MORTAZAVI, AHMAD, GB
[72] MANNELLA, VIVIANA, GB
[72] JAYARAMAN, MUTHUSAMY, US
[71] E-THERAPEUTICS PLC, GB
[85] 2024-03-15
[86] 2022-07-27 (PCT/US2022/074223)
[87] (WO2023/059948)
[30] US (63/262,316) 2021-10-08
[30] US (63/271,684) 2021-10-25
[30] EP (PCT/EP2022/052070) 2022-01-28

[21] **3,232,054**
[13] A1
[51] **Int.Cl. A61K 47/59 (2017.01) A61K 47/61 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **DENDRIMER CONJUGATES OF SMALL MOLECULE BIOLOGICS FOR INTRACELLULAR DELIVERY**
[54] **CONJUGUES DE DENDRIMERES DE PRODUITS BIOLOGIQUES A PETITES MOLECULES POUR ADMINISTRATION INTRACELLULAIRE**
[72] RANGARAMANUJAM, KANNAN, US
[72] LIYANAGE, WATHSALA, US
[72] WU, TONY, US
[72] KANNAN, SUJATHA, US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2024-03-15
[86] 2022-09-21 (PCT/US2022/076775)
[87] (WO2023/049743)
[30] US (63/246,705) 2021-09-21

[21] **3,232,055**
[13] A1
[51] **Int.Cl. A47J 31/44 (2006.01) A47J 31/46 (2006.01) A47J 31/60 (2006.01)**
[25] EN
[54] **A CONNECTOR FOR A FLUID DISPENSING APPARATUS**
[54] **RACCORD POUR APPAREIL DE DISTRIBUTION DE FLUIDE**
[72] STANDAAR, KOEN, NL
[72] DEES, HENDRIK JOHAN, NL
[71] KONINKLIJKE DOUWE EGBERTS B.V, NL
[85] 2024-03-15
[86] 2022-09-21 (PCT/EP2022/076223)
[87] (WO2023/046752)
[30] GB (2113469.7) 2021-09-21

[21] **3,232,056**
[13] A1
[51] **Int.Cl. C01B 21/086 (2006.01) C01B 21/093 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING AN ALKALI METAL SALT OF BIS(FLUORO SULFONYL)IMIDE**
[54] **COMPOSITION COMPRENANT UN SEL DE METAL ALCALIN DE BIS(FLUOROSULFONYL)IMIDE**
[72] SCHMITT, ETIENNE, FR
[72] LE GUYADER, FREDERIC, FR
[72] ROQUES, NICOLAS, FR
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-03-15
[86] 2023-11-09 (PCT/EP2023/081354)
[87] (WO2023/247804)
[30] EP (22209471.6) 2022-11-24

[21] **3,232,057**
[13] A1
[51] **Int.Cl. H04W 36/00 (2009.01)**
[25] EN
[54] **METHOD AND APPARATUS FOR WIRELESS COMMUNICATION**
[54] **PROCEDE ET APPAREIL DE COMMUNICATION SANS FIL**
[72] WU, LIANHAI, CN
[72] BASU MALLICK, PRATEEK, DE
[71] LENOVO (BEIJING) LIMITED, CN
[85] 2024-03-15
[86] 2021-12-21 (PCT/CN2021/140108)
[87] (WO2023/115337)

[21] **3,232,058**
[13] A1
[51] **Int.Cl. A47J 31/46 (2006.01) A47J 31/60 (2006.01)**
[25] EN
[54] **AN OUTLET NOZZLE ARRANGEMENT FOR A DRINK DISPENSING APPARATUS**
[54] **DISPOSITIF DE BUSE DE SORTIE POUR APPAREIL DE DISTRIBUTION DE BOISSONS**
[72] STANDAAR, KOEN, NL
[72] DEES, HENDRIK JOHAN, NL
[71] KONINKLIJKE DOUWE EGBERTS B.V, NL
[85] 2024-03-15
[86] 2022-09-21 (PCT/EP2022/076220)
[87] (WO2023/046749)
[30] GB (2113470.5) 2021-09-21

[21] **3,232,059**
[13] A1
[51] **Int.Cl. H01M 50/553 (2021.01) H01M 50/103 (2021.01) H01M 50/15 (2021.01) H01M 50/176 (2021.01) H01M 50/342 (2021.01) H01M 50/566 (2021.01) H01M 50/59 (2021.01)**
[25] EN
[54] **SECONDARY BATTERY HAVING IMPROVED TERMINAL STRUCTURE**
[54] **BATTERIE SECONDAIRE PRESENTANT UNE STRUCTURE DE BORNE AMELIOREE**
[72] KO, YOUNG JUN, KR
[72] SUNG, JOO HWAN, KR
[72] JUNG, KYUNG HWAN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-15
[86] 2023-07-11 (PCT/KR2023/009832)
[87] (WO2024/014830)
[30] KR (10-2022-0085249) 2022-07-11

[21] **3,232,060**
[13] A1
[51] **Int.Cl. A47J 31/40 (2006.01) A47J 31/60 (2006.01)**
[25] EN
[54] **A MIXING APPARATUS FOR A DRINK DISPENSING MACHINE**
[54] **APPAREIL DE MELANGE POUR UNE MACHINE DE DISTRIBUTION DE BOISSON**
[72] STANDAAR, KOEN, NL
[72] DEES, HENDRIK JOHAN, NL
[71] KONINKLIJKE DOUWE EGBERTS B.V, NL
[85] 2024-03-15
[86] 2022-09-21 (PCT/EP2022/076217)
[87] (WO2023/046747)
[30] GB (2113471.3) 2021-09-21

[21] **3,232,061**
[13] A1
[51] **Int.Cl. E04B 1/62 (2006.01) B23B 5/02 (2006.01) B23B 5/12 (2006.01) B23B 27/12 (2006.01) D03D 15/283 (2021.01) B32B 5/26 (2006.01)**
[25] EN
[54] **PROTECTIVE WRAP FOR REGULATING FLUID INFILTRATION AND METHODS OF MAKING, INSTALLING, AND USING THE SAME**
[54] **ENVELOPPE PROTECTRICE POUR REGULER L'INFILTRATION DE FLUIDE ET PROCEDES DE FABRICATION, D'INSTALLATION ET D'UTILISATION DE CELLE-CI**
[72] XIE, MING, US
[72] VARONA, EUGENIO G., US
[72] VARONA, RAYMOND, US
[71] KINGSPAN INSULATION LLC, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043901)
[87] (WO2023/044073)
[30] US (63/245,069) 2021-09-16

[21] **3,232,062**
[13] A1
[51] **Int.Cl. C01B 21/086 (2006.01) C01B 21/093 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING AN ALKALI METAL SALT OF BIS(FLUORO SULFONYL)IMIDE**
[54] **COMPOSITION COMPRENANT UN SEL DE METAL ALCALIN DE BIS(FLUOROSULFONYL)IMIDE**
[72] SCHMITT, ETIENNE, FR
[72] ROQUES, NICOLAS, FR
[72] BATT, FREDERIC, FR
[72] DERRIEN, ELIE, FR
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-03-15
[86] 2023-11-09 (PCT/EP2023/081356)
[87] (WO2023/247805)
[30] EP (22209474.0) 2022-11-24

[21] **3,232,063**
[13] A1
[51] **Int.Cl. G06F 40/30 (2020.01) G06F 16/93 (2019.01) G06N 20/20 (2019.01) G06V 10/82 (2022.01) G06V 30/413 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR TRAINING ATTRIBUTE PREDICTION MODELS**
[54] **PROCEDES ET SYSTEMES D'ENTRAINEMENT DE MODELES DE PREDICTION D'ATTRIBUTS**
[72] RUSU, DELIA, NZ
[72] GABRIEL THURIER, QUENTIN, NZ
[72] CHEAH, SOON-EE, NZ
[72] DRIDAN, REBECCA, NZ
[71] XERO LIMITED, NZ
[85] 2024-03-15
[86] 2022-09-02 (PCT/NZ2022/050119)
[87] (WO2023/043322)
[30] AU (2021903009) 2021-09-17

[21] **3,232,064**
[13] A1
[51] **Int.Cl. H02J 1/10 (2006.01)**
[25] EN
[54] **GENERATOR SYSTEM WITH AUTOMATIC POWER CONTROL**
[54] **SYSTEME DE GENERATEUR AVEC COMMANDE DE PUISSANCE AUTOMATIQUE**
[72] LUU, TIN, US
[72] RICCIARDELLI, ROBERT JR., US
[72] NASH, TERESA, US
[72] ELLIS, MATTHEW, US
[71] GENERAC POWER SYSTEMS, INC., US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/076587)
[87] (WO2023/044437)
[30] US (63/245,641) 2021-09-17

[21] **3,232,065**
[13] A1
[51] **Int.Cl. A01H 6/28 (2018.01) C12N 15/82 (2006.01)**
[25] EN
[54] **TRANSFORMING CANNABACEAE CELLS**
[54] **LA TRANSFORMATION DES CELLULES CANNABIQUES**
[72] DA SILVA CONCEICAO, ALEXANDRE, US
[72] KURTZ, BRADY, US
[72] UPPGAARD, ANDERS, US
[71] CIBUS EUROPE B.V., NL
[85] 2024-03-15
[86] 2022-06-13 (PCT/US2022/033275)
[87] (WO2023/043511)
[30] US (63/245,301) 2021-09-17

[21] **3,232,066**
[13] A1
[51] **Int.Cl. B08B 1/00 (2024.01) H02M 1/44 (2007.01) A46B 5/00 (2006.01) A46B 11/06 (2006.01) A46B 15/00 (2006.01) B23H 3/02 (2006.01) B23H 3/04 (2006.01) C25F 1/00 (2006.01) C25F 3/16 (2006.01) H01R 43/00 (2006.01) H02M 7/53 (2006.01) H02M 7/537 (2006.01) H02M 7/5387 (2007.01)**
[25] EN
[54] **ELECTROCHEMICAL TREATMENT DEVICE**
[54] **DISPOSITIF DE TRAITEMENT ELECTROCHIMIQUE**
[72] WHITE, CLIVE STUART, AU
[71] ENSITECH IP PTY LTD, AU
[85] 2024-03-14
[86] 2022-09-19 (PCT/AU2022/051126)
[87] (WO2023/039641)
[30] AU (2021902996) 2021-09-17

[21] **3,232,067**
[13] A1
[51] **Int.Cl. C12N 15/85 (2006.01) A61K 39/395 (2006.01) A61K 48/00 (2006.01) A61P 27/02 (2006.01) C07K 16/22 (2006.01) C07K 16/46 (2006.01) C12N 5/10 (2006.01) C12N 15/13 (2006.01) C12N 15/864 (2006.01)**
[25] EN
[54] **AAV FOR THE GENE THERAPY OF WET-AMD**
[54] **AAV POUR LA THERAPIE GENIQUE DE LA DMLA HUMIDE**
[72] HOU, JINZHAO, CN
[72] SHU, YANQUN, CN
[72] REN, QIONGQIONG, CN
[72] LI, HEPING, CN
[71] SKYLINE THERAPEUTICS LIMITED, KY
[85] 2024-03-15
[86] 2022-09-16 (PCT/CN2022/119238)
[87] (WO2023/041015)
[30] CN (PCT/CN2021/119223) 2021-09-18

[21] **3,232,068**
[13] A1
[51] **Int.Cl. C12N 15/11 (2006.01)**
[25] EN
[54] **DOUBLE STRANDED OLIGONUCLEOTIDE COMPOSITIONS AND METHODS RELATING THERETO**
[54] **COMPOSITIONS OLIGONUCLETIQUES DOUBLE BRIN ET PROCEDES S'Y RAPPORTANT**
[72] VARGEESE, CHANDRA, US
[72] IWAMOTO, NAOKI, US
[72] LIU, WEI, US
[72] LUU, NGOC DANG KHOA, US
[72] KANDASAMY, PACHAMUTHU, US
[72] MARAPPAN, SUBRAMANIAN, US
[72] TRIPATHI, SNEHLATA, US
[71] WAVE LIFE SCIENCES LTD., SG
[85] 2024-03-15
[86] 2022-09-21 (PCT/US2022/044296)
[87] (WO2023/049218)
[30] US (63/246,756) 2021-09-21

[21] **3,232,069**
[13] A1
[51] **Int.Cl. C02F 1/28 (2006.01) B01D 24/36 (2006.01)**
[25] EN
[54] **FLUID TREATMENT FACILITY WHICH OPERATES UNDER PRESSURE AND IMPLEMENTS A FLUIDISED BED OF ADSORBENT MEDIA PARTICLES**
[54] **INSTALLATION DE TRAITEMENT DE FLUIDE FONCTIONNANT SOUS PRESSION METTANT EN OEUVRE UN LIT FLUIDISE DE PARTICULES DE MEDIA ADSORBANT**
[72] SAUVIGNET, PHILIPPE, FR
[72] EXPOSITO, PATRICK, FR
[72] ANGOT, PHILIPPE, FR
[71] VEOLIA WATER SOLUTIONS & TECHNOLOGIES SUPPORT, FR
[85] 2024-03-15
[86] 2022-09-23 (PCT/EP2022/076581)
[87] (WO2023/046925)
[30] FR (FR2110051) 2021-09-23

[21] **3,232,071**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01) G16B 35/00 (2019.01) C07K 14/52 (2006.01) C12N 15/24 (2006.01)**
[25] EN
[54] **MODIFIED INTERLEUKIN P40 SUBUNIT PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE SOUS-UNITE DE L'INTERLEUKINE P40 ET LEURS PROCEDES D'UTILISATION**
[72] BLACKLER, RYAN, CA
[72] SPRETER VON KREUDENSTEIN, THOMAS, CA
[71] ZYMEWORKS BC INC., CA
[85] 2024-03-15
[86] 2022-09-29 (PCT/CA2022/051445)
[87] (WO2023/050006)
[30] US (63/249,685) 2021-09-29

[21] **3,232,072**
[13] A1
[51] **Int.Cl. B32B 13/08 (2006.01) E04B 2/56 (2006.01) E04C 2/04 (2006.01) E04C 2/26 (2006.01)**
[25] EN
[54] **WOODEN LOAD-BEARING WALL, METHOD OF CONSTRUCTING WOODEN LOAD-BEARING WALL, METHOD OF INCREASING CO-EFFICIENT OF EFFECTIVE WALL LENGTH OF WOODEN LOAD-BEARING WALL, AND GYPSUM-BASED LOAD-BEARING BOARD**
[54] **MUR PORTEUR A STRUCTURE EN BOIS, PROCEDE DE CONSTRUCTION D'UN MUR_PORTEUR A STRUCTURE EN BOIS, PROCEDE POUR ACCROITRE UN AGRANDISSEMENT DE PAROI D'UN MUR PORTEUR A STRUCTURE EN BOIS, ET MATERIAU DE SURFACE PORTEUR A BASE DE GYPSE**
[72] SUDO, USHIO, JP
[72] NIIMI, KATSUMI, JP
[72] HASEGAWA, TOMOYA, JP
[72] YAMASHITA, TAKUJI, JP
[72] AKAI, KOZO, JP
[72] SATO, YOUSUKE, JP
[71] YOSHINO GYPSUM CO., LTD., JP
[85] 2024-03-15
[86] 2022-09-22 (PCT/JP2022/035489)
[87] (WO2023/058470)
[30] JP (2021-163783) 2021-10-05

[21] **3,232,078**
[13] A1
[51] **Int.Cl. A61K 9/19 (2006.01) A61K 31/675 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61P 25/08 (2006.01)**
[25] EN
[54] **FOSPHENYTOIN SODIUM SOLID COMPOSITION, LYOPHILIZATION METHOD, AND USE OF FOSPHENYTOIN SODIUM SOLID COMPOSITION**
[54] **COMPOSITION SOLIDE DE FOSPHENYTOINE SODIQUE, PROCEDE DE LYOPHILISATION ET UTILISATION DE LA COMPOSITION SOLIDE DE FOSPHENYTOINE SODIQUE**
[72] CHEN, GANG, CN
[72] CHEN, GONGZHENG, CN
[72] LIN, SONG, US
[72] NELLAIAPPAN, KALIAPPANADAR, US
[72] JAVERI, INDU, US
[71] SICHUAN CREDIT PHARMACEUTIICAL CO., LTD, CN
[85] 2024-03-11
[86] 2020-12-04 (PCT/CN2020/133822)
[87] (WO2022/116134)

[21] **3,232,086**
[13] A1
[51] **Int.Cl. C07D 231/56 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **PRODRUGS OF AXITINIB**
[54] **PROMEDICAMENTS D'AXITINIB**
[72] JARRETT, PETER, US
[72] EL-HAYEK, RAMI, US
[71] OCULAR THERAPEUTIX, INC., US
[85] 2024-03-18
[86] 2022-10-14 (PCT/US2022/046750)
[87] (WO2023/064578)
[30] US (63/255,998) 2021-10-15

[21] **3,232,088**
[13] A1
[51] **Int.Cl. A61K 9/22 (2006.01) A61K 31/435 (2006.01) A61K 31/4353 (2006.01) A61K 31/4375 (2006.01) A61K 47/10 (2017.01) A61K 47/12 (2006.01) A61K 47/14 (2017.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61P 19/06 (2006.01) C07D 215/06 (2006.01) C07D 215/36 (2006.01) C07D 215/42 (2006.01)**
[25] EN
[54] **QUINOLINE COMPOUND SUSTAINED-RELEASE TABLET AND PREPARATION METHOD THEREOF**
[54] **COMPRIME DE COMPOSE QUINOLEINE A LIBERATION PROLONGEE ET SON PROCEDE DE PREPARATION**
[72] WEI, XING, CN
[72] KUANG, TONGTAO, CN
[72] CHEN, JIANG, CN
[72] AI, CHAOWU, CN
[72] LI, XINGHAI, CN
[71] HINOVA PHARMACEUTICALS INC., CN
[85] 2024-03-18
[86] 2021-09-17 (PCT/CN2021/119132)
[87] (WO2023/039850)

[21] **3,232,091**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01) A61K 31/00 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01) C07C 15/00 (2006.01)**
[25] EN
[54] **A PHARMACEUTICAL COMPOSITION OF FXR AGONIST AND ITS PREPARATION METHOD**
[54] **COMPOSITION PHARMACEUTIQUE D'AGONISTE DE FXR ET SON PROCEDE DE PREPARATION**
[72] DONG, KUNHUA, CN
[72] WU, JINZI JASON, CN
[71] GANNEX PHARMA CO., LTD., CN
[85] 2024-03-08
[86] 2021-09-09 (PCT/CN2021/117440)
[87] (WO2023/035181)

[21] **3,232,092**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61K 45/00 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **ANTIBODY DRUG CONJUGATE FORMULATION AND USE THEREOF**
[54] **FORMULATION DE CONJUGUE ANTICORPS-MEDICAMENT ET SON UTILISATION**
[72] XIAO, LILI, CN
[72] HU, CHAOHONG, CN
[71] SHANGHAI MIRACOGEN INC., CN
[85] 2024-03-12
[86] 2021-09-16 (PCT/CN2021/118656)
[87] (WO2023/039778)

[21] **3,232,097**
[13] A1
[51] **Int.Cl. F16K 1/42 (2006.01) F16K 1/46 (2006.01) F16K 1/52 (2006.01) F16K 17/02 (2006.01) F16K 31/126 (2006.01) F16K 37/00 (2006.01) F16K 49/00 (2006.01)**
[25] EN
[54] **PRESSURE COMPENSATED BELLOWS VALVE**
[54] **VANNE A SOUFFLET COMPENSEE EN PRESSION**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-18
[86] 2022-09-13 (PCT/US2022/043337)
[87] (WO2023/048989)
[30] US (17/485,663) 2021-09-27

[21] **3,232,099**
[13] A1
[51] **Int.Cl. C07K 14/215 (2006.01)**
[25] EN
[54] **GENETICALLY ENCODED VOLTAGE INDICATORS AND USES THEREOF**
[54] **INDICATEURS DE TENSION CODES GENETIQUEMENT ET LEURS UTILISATIONS**
[72] COHEN, ADAM EZRA, US
[72] TIAN, HE, US
[71] PRESIDENT AND FELLOWS OF HARVARD COLLEGE, US
[85] 2024-03-18
[86] 2022-09-23 (PCT/US2022/076907)
[87] (WO2023/049826)
[30] US (63/247,704) 2021-09-23

[21] **3,232,101**
[13] A1
[51] **Int.Cl. C07D 403/14 (2006.01) A61K 31/517 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **CRYSTALLINE FORMS OF QUINAZOLINE DERIVATIVES, PREPARATION, COMPOSITION AND USE THEREOF**
[54] **FORMES CRISTALLINES DE DERIVES DE QUINAZOLINE, LEUR PREPARATION, LEUR COMPOSITION ET LEUR UTILISATION**
[72] WANG, ZHENG, CN
[72] ZHOU, DING, CN
[72] CHENG, ZIQIANG, CN
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2024-03-12
[86] 2022-10-19 (PCT/CN2022/126169)
[87] (WO2023/066296)
[30] CN (PCT/CN2021/125016) 2021-10-20

[21] **3,232,102**
[13] A1
[51] **Int.Cl. G01J 3/52 (2006.01) G06T 7/90 (2017.01) G01N 21/27 (2006.01)**
[25] EN
[54] **CALIBRATION AID FOR OPTICAL IMAGING APPLICATIONS**
[54] **AUXILIAIRE D'ETALONNAGE POUR APPLICATIONS D'IMAGERIE OPTIQUE**
[72] KLYMCHENKO, ANDREY, FR
[72] DIANA, MICHELE, FR
[72] ASHOKA, ANILA HOSKERE, FR
[71] UNIVERSITE DE STRASBOURG, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] INSTITUT DE RECHERCHE CONTRE LES CANCERS DE L'APPAREIL DIGESTIF (IRCAD), FR
[85] 2024-03-18
[86] 2022-09-21 (PCT/EP2022/076183)
[87] (WO2023/046729)
[30] EP (21306309.2) 2021-09-22

[21] **3,232,103**
[13] A1
[51] **Int.Cl. C04B 35/528 (2006.01) C04B 35/56 (2006.01) C04B 35/563 (2006.01) C04B 35/565 (2006.01) C04B 35/58 (2006.01) C04B 35/581 (2006.01) C04B 35/584 (2006.01) C04B 37/00 (2006.01) C04B 38/00 (2006.01)**
[25] EN
[54] **COMPONENT PRODUCED USING AN INFILTRATION PROCESS, DEVICE COMPRISING SAID COMPONENT, AND INFILTRATION PROCESS FOR PRODUCING A COMPONENT**
[54] **COMPOSANT PRODUIT A L'AIDE D'UN PROCEDE D'INFILTRATION, DISPOSITIF COMPRENANT LEDIT COMPOSANT ET PROCEDE D'INFILTRATION POUR LA PRODUCTION D'UN COMPOSANT**
[72] SCHNETTER, LARS, DE
[72] GINGTER, PHILIPP, DE
[72] MINAS-PAYAMYAR, CLARA, DE
[72] KERSBERG, DUSTIN, DE
[71] SCHUNK INGENIEURKERAMIK GMBH, DE
[85] 2024-03-12
[86] 2021-09-29 (PCT/EP2021/076820)
[87] (WO2023/051905)

[21] **3,232,104**
[13] A1
[51] **Int.Cl. B03D 1/00 (2006.01) B03D 1/008 (2006.01) B03D 1/01 (2006.01) B03D 1/02 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR USE OF 1-ALKYL-5-OXOPYRROLIDINE-3-CARBOXYLIC ACIDS AS COLLECTORS FOR PHOSPHATE AND LITHIUM FLOTATION**
[54] **COMPOSITION ET PROCEDE D'UTILISATION D'ACIDES 1-ALKYL-5-OXOPYRROLIDINE-3-CARBOXYLIQUES COMME COLLECTEURS POUR LA FLOTTATION DE PHOSPHATE ET DE LITHIUM**
[72] LEINWEBER, DIRK, DE
[72] GROSSMANN, ADRIANA, DE
[72] DA SILVA, 'WAGNER CLAUDIO, BR
[72] BICALHO, LEANDRO SEIXAS, BR
[71] CLARIANT INTERNATIONAL LTD, CH
[85] 2024-03-08
[86] 2022-07-13 (PCT/EP2022/069546)
[87] (WO2023/036498)
[30] US (17/470,795) 2021-09-09
[30] EP (21199322.5) 2021-09-28

[21] **3,232,107**
[13] A1
[51] **Int.Cl. A61B 5/15 (2006.01) A61B 5/155 (2006.01) A61G 13/10 (2006.01)**
[25] EN
[54] **VACUUM PAD AND RELATED SYSTEM**
[54] **VENTOUSE ET SYSTEME CONNEXE**
[72] LANCE, TERESA, US
[72] DESAI, NEERAJ, US
[72] WHITEHOUSE, NEIL, US
[71] ORLANDO HEALTH, INC., US
[85] 2024-03-18
[86] 2022-02-18 (PCT/US2022/016949)
[87] (WO2023/063982)
[30] US (17/499,346) 2021-10-12

[21] **3,232,108**
[13] A1
[51] **Int.Cl. B65D 43/02 (2006.01) B65D 43/16 (2006.01) B65D 43/18 (2006.01) A47G 19/12 (2006.01)**
[25] EN
[54] **DRINKING LID**
[54] **COUVERCLE POUR BOISSON**
[72] GORDON, WILLIAM FAXON, US
[72] PAMPLIN, RYAN MICHAEL, US
[71] BLENDJET INC., US
[85] 2024-03-18
[86] 2022-10-14 (PCT/US2022/046775)
[87] (WO2023/069329)
[30] US (17/507,377) 2021-10-21

[21] **3,232,109**
[13] A1
[51] **Int.Cl. A61K 8/365 (2006.01) A61K 8/46 (2006.01) A61K 8/49 (2006.01) A61Q 19/10 (2006.01)**
[25] EN
[54] **PERSONAL CLEANSING COMPOSITION WITH AN ORGANIC ACID HAVING A PKA GREATER THAN 2.7**
[54] **COMPOSITION DE NETTOYAGE PERSONNEL AVEC UN ACIDE ORGANIQUE AYANT UN PKA SUPERIEUR A 2,7**
[72] WEI, KARL SHIPING, US
[72] ZHANG, LESHENG, CN
[72] WU, XIAOJIAN, CN
[72] YU, HECHUAN, CN
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-11
[86] 2021-10-29 (PCT/CN2021/127315)
[87] (WO2023/070501)

[21] **3,232,111**
[13] A1
[51] **Int.Cl. A23K 20/137 (2016.01) A23K 50/10 (2016.01) A61K 31/4245 (2006.01) A61P 1/14 (2006.01) A61P 31/00 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **METHANOGEN INHIBITORS**
[54] **INHIBITEURS DE METHANOGENE**
[72] BODDY, IAN KENNETH, NZ
[72] RENNISON, DAVID, NZ
[71] PASTORAL GREENHOUSE GAS RESEARCH LIMITED, NZ
[71] RENNISON, DAVID, NZ
[85] 2024-03-18
[86] 2022-09-23 (PCT/NZ2022/050124)
[87] (WO2023/048582)
[30] NZ (780622) 2021-09-24
[30] NZ (789272) 2022-06-10

[21] **3,232,113**
[13] A1
[51] **Int.Cl. B01D 53/60 (2006.01) B01J 23/02 (2006.01) B01J 23/10 (2006.01) B01J 23/89 (2006.01) B01J 37/02 (2006.01)**
[25] EN
[54] **CATALYST FOR REDUCING SOX AND NOX IN FLUE GAS, PREPARATION METHOD THEREFOR, AND METHOD FOR REMOVING SOX AND NOX FROM FLUE GAS**
[54] **CATALYSEUR DE REDUCTION DE SOX ET DE NOX DANS UN GAZ DE COMBUSTION, SON PROCEDE DE PREPARATION ET PROCEDE D'ELIMINATION DE SOX ET DE NOX A PARTIR D'UN GAZ DE COMBUSTION**
[72] JIANG, QIUQIAO, CN
[72] SONG, HAITAO, CN
[72] FENG, MENGLONG, CN
[72] ZHAO, DONGYUE, CN
[72] QU, YAKUN, CN
[72] SHA, HAO, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] SINOPEC RESEARCH INSTITUTE OF PETROLEUM PROCESSING CO., LTD., CN
[85] 2024-03-11
[86] 2022-09-09 (PCT/CN2022/118245)
[87] (WO2023/036317)
[30] CN (202111055118.0) 2021-09-09
[30] CN (202111055151.3) 2021-09-09
[30] CN (202111055913.X) 2021-09-09
[30] CN (202111054717.0) 2021-09-09

[21] **3,232,114**
[13] A1
[51] **Int.Cl. A61K 38/07 (2006.01) A61K 38/08 (2019.01) A61P 35/00 (2006.01) C07K 14/03 (2006.01)**
[25] EN
[54] **PEPTIDES WITH ANTI-ANGIOGENIC ACTIVITY**
[54] **PEPTIDES AYANT UNE ACTIVITE ANTI-ANGIOGENIQUE**
[72] CACCURI, FRANCESCA, IT
[72] CARUSO, ARNALDO, IT
[71] CHEIRONTECH S.R.L., IT
[85] 2024-03-07
[86] 2022-09-08 (PCT/EP2022/074974)
[87] (WO2023/036867)
[30] IT (102021000023357) 2021-09-09

[21] **3,232,116**
[13] A1
[51] **Int.Cl. C10K 3/06 (2006.01) C10B 21/08 (2006.01) C10B 21/10 (2006.01) C10K 3/04 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A COKE OVEN PLANT**
[54] **PROCEDE DE MISE EN FONCTIONNEMENT D'UNE INSTALLATION DE FOUR A COKE**
[72] FERRARIS, ALESSIO, IT
[72] CALCAGNO, RICCARDO, IT
[71] PAUL WURTH S.A., LU
[85] 2024-03-18
[86] 2022-10-20 (PCT/EP2022/079312)
[87] (WO2023/072742)
[30] LU (LU500783) 2021-10-25

[21] **3,232,117**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **KIT FOR FORMING A MICROPLATE ASSEMBLY FOR ABSORBANCE MEASUREMENTS OF LIQUID SAMPLES**
[54] **KIT DE FORMATION D'UN ENSEMBLE MICROPLAQUE POUR MESURES D'ABSORBANCE D'ECHANTILLONS LIQUIDES**
[72] AMRHEIN, SVEN MATTHIAS, CH
[71] F. HOFFMANN-LA ROCHE AG, CH
[85] 2024-03-11
[86] 2022-09-19 (PCT/EP2022/075949)
[87] (WO2023/041780)
[30] EP (21197823.4) 2021-09-20

[21] **3,232,119**
[13] A1
[51] **Int.Cl. B29C 37/00 (2006.01) B29D 99/00 (2010.01)**
[25] EN
[54] **METHOD OF MASKING A MOULD FOR MOULDING A WIND TURBINE BLADE SHELL PART**
[54] **PROCEDE DE MASQUAGE D'UN MOULE DE MOULAGE D'UNE PARTIE DE COQUE DE PALE D'EOLIENNE**
[72] KALLESTRUP, DAVID, DK
[71] LM WIND POWER A/S, DK
[85] 2024-03-18
[86] 2022-09-16 (PCT/EP2022/075827)
[87] (WO2023/046598)
[30] EP (21197907.5) 2021-09-21

[21] **3,232,120**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) B01J 19/00 (2006.01)**
[25] EN
[54] **MICROFLUIDIC CHIP AND MICROFLUIDIC CHIP TESTING SYSTEM**
[54] **PUCE MICROFLUIDIQUE ET SYSTEME DE TEST DE PUCE MICROFLUIDIQUE**
[72] ZHANG, DONGXU, CN
[72] GAO, RUNXIN, CN
[72] HUANG, SHAOLEI, CN
[72] HUANG, YULIN, CN
[72] LIU, GUOQIANG, CN
[72] YANG, JIAYU, CN
[72] ZENG, JUNTIAN, CN
[72] SONG, LIUWEI, CN
[72] GE, SHENGXIANG, CN
[72] ZHANG, JUN, CN
[72] XIA, NINGSHAO, CN
[71] XIAMEN UNIVERSITY, CN
[71] XIAMEN INNODX BIOTECH CO., LTD, CN
[85] 2024-03-11
[86] 2022-11-11 (PCT/CN2022/131391)
[87] (WO2023/088184)
[30] CN (202111362356.6) 2021-11-17

[21] **3,232,122**
[13] A1
[51] **Int.Cl. G08B 17/10 (2006.01) A62C 3/08 (2006.01) B64D 13/00 (2006.01) B64D 25/00 (2006.01) G08B 17/00 (2006.01)**
[25] EN
[54] **SYSTEM FOR DETECTING SMOKE IN CARGO TRANSPORTED IN A PASSENGER CABIN OF AN AIRCRAFT**
[54] **SYSTEME DE DETECTION DE FUMEE DANS UNE CARGAISON TRANSPORTEE DANS UNE CABINE DE PASSAGERS D'UN AERONEF**
[72] SMALLHORN, GEORGE R., CA
[71] INFLIGHT INVESTMENTS INC., CA
[85] 2024-03-11
[86] 2022-09-13 (PCT/CA2022/051365)
[87] (WO2023/035086)
[30] US (63/243,440) 2021-09-13

[21] **3,232,123**
[13] A1
[51] **Int.Cl. A23G 1/00 (2006.01) A23G 1/36 (2006.01) A23G 1/40 (2006.01) A23G 1/48 (2006.01)**
[25] EN
[54] **CHOCOLATE PRODUCT**
[54] **PRODUIT DE CHOCOLAT**
[72] COMERFORD, KATELYN, US
[72] MUKHERJEE, INDRANEIL, US
[72] NORTON, CLIVE, US
[71] KRAFT FOODS SCHWEIZ HOLDING GMBH, CH
[85] 2024-03-11
[86] 2022-09-26 (PCT/EP2022/076720)
[87] (WO2023/046965)
[30] US (63/248,937) 2021-09-27

[21] **3,232,125**
[13] A1
[51] **Int.Cl. B01D 53/14 (2006.01) B01D 53/18 (2006.01)**
[25] EN
[54] **METHOD FOR CAPTURING CO2 FROM A FLUE GAS FROM A DISTRICT HEATING PLANT**
[54] **PROCEDE DE CAPTURE DE CO2 A PARTIR D'UN GAZ DE COMBUSTION PROVENANT D'UNE INSTALLATION DE CHAUFFAGE URBAIN**
[72] HAMRIN, STELLAN, SE
[71] CAPSOL TECHNOLOGIES ASA, NO
[85] 2024-03-12
[86] 2022-09-13 (PCT/EP2022/075447)
[87] (WO2023/041541)
[30] NO (20211107) 2021-09-14

[21] **3,232,126**
[13] A1
[51] **Int.Cl. A61K 8/92 (2006.01) C08L 91/00 (2006.01)**
[25] EN
[54] **HYDROPHOBIC AND HYDROPHILIC MODIFIED MALEATED NATURAL OILS AND COMPOSITIONS THEREOF**
[54] **HUILES NATURELLES MODIFIEES PAR MALEATE HYDROPHOBES ET HYDROPHILES ET COMPOSITIONS DE CELLES-CI**
[72] MUSA, OSAMA M., US
[72] GHOSH, MOUSUMI, US
[72] PRETTYPAUL, DONALD I., US
[72] KENNEDY, DIANE M., US
[71] ISP INVESTMENTS LLC, US
[85] 2024-03-18
[86] 2022-08-24 (PCT/US2022/041337)
[87] (WO2023/043593)
[30] US (63/246,035) 2021-09-20

[21] **3,232,128**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) C07D 239/72 (2006.01) C07D 403/14 (2006.01) C07D 471/04 (2006.01)**
[25] EN
[54] **PYRIDINE DERIVATIVE AND USE THEREOF**
[54] **DERIVE DE PYRIDINE ET SON UTILISATION**
[72] CHEN, SHOUJUN, CN
[72] QIANG, XIAOMING, CN
[72] DING, ZHAO, CN
[72] XIONG, YONG, CN
[72] WANG, HAIBO, CN
[72] LIU, KE, CN
[72] LIU, MINGDENG, CN
[71] SICHUAN HUIYU PHARMACEUTICAL CO., LTD., CN
[71] SICHUAN HUIYU SEACROSS PHARMACEUTICAL TECHNOLOGY CO., LTD., CN
[85] 2024-03-18
[86] 2022-09-21 (PCT/CN2022/120154)
[87] (WO2023/045960)
[30] CN (202111108176.5) 2021-09-22
[30] CN (202210089257.3) 2022-01-25
[30] CN (202210227315.4) 2022-03-08

[21] **3,232,129**
[13] A1
[51] **Int.Cl. G01N 29/28 (2006.01)**
[25] EN
[54] **ENHANCED COVERAGE LOCAL IMMERSION FOR NON-DESTRUCTIVE TEST (NDT)**
[54] **IMMERSION LOCALE A COUVERTURE AMELIOREE POUR ESSAI NON DESTRUCTIF (NDT)**
[72] DESCHENES, ALAIN, CA
[72] ROYER, OLIVIER, CA
[71] EVIDENT CANADA, INC., CA
[85] 2024-03-12
[86] 2022-09-13 (PCT/CA2022/051364)
[87] (WO2023/035085)
[30] US (63/261,140) 2021-09-13

[21] **3,232,130**
[13] A1
[51] **Int.Cl. A23L 5/46 (2016.01) A23L 29/256 (2016.01) A23L 33/18 (2016.01) A23L 33/185 (2016.01) A23L 33/19 (2016.01) A23L 2/58 (2006.01)**
[25] EN
[54] **COULORING COMPOSITION**
[54] **COMPOSITION COLORANTE**
[72] CHOUKET, RAJA, FR
[72] ZHANG, YUANGANG, US
[71] GIVAUDAN SA, CH
[85] 2024-03-11
[86] 2022-09-27 (PCT/EP2022/076798)
[87] (WO2023/052343)
[30] US (63/249,378) 2021-09-28
[30] EP (21210046.5) 2021-11-23

[21] **3,232,132**
[13] A1
[51] **Int.Cl. G01N 37/00 (2006.01) G01N 27/9093 (2021.01) G01N 29/22 (2006.01)**
[25] EN
[54] **NON-DESTRUCTIVE INSPECTION ADAPTABLE HEAD FOR MULTIPLE PROFILES**
[54] **TETE ADAPTABLE D'INSPECTION NON DESTRUCTIVE POUR DE MULTIPLES PROFILS**
[72] TRACHY-CLOUTIER, JUSTIN, CA
[72] GAGNON-LACHANCE, CHRISTIAN, CA
[71] EVIDENT CANADA, INC., CA
[85] 2024-03-12
[86] 2022-09-16 (PCT/CA2022/051378)
[87] (WO2023/039674)
[30] US (63/261,327) 2021-09-17

[21] **3,232,134**
[13] A1
[51] **Int.Cl. C07G 1/00 (2011.01)**
[25] EN
[54] **METHOD FOR OBTAINING AN ANTIOXIDANT COMPOSITION FROM LIGNIN, LIGNIN LIQUOR OR BLACK LIQUOR**
[54] **PROCEDE D'OBTENTION D'UNE COMPOSITION ANTIOXYDANTE A PARTIR DE LIGNINE, DE LA LIQUEUR DE LIGNINE OU DE LA LIQUEUR NOIRE**
[72] FUNCIA MUGUERZA, IBAI, ES
[72] CLEMENTE CORNAGO, ALBERTO, ES
[72] FERNANDEZ OCHOA, JON, ES
[71] FUNDACION CENER, ES
[85] 2024-03-12
[86] 2022-09-13 (PCT/EP2022/075452)
[87] (WO2023/037013)
[30] EP (21382822.1) 2021-09-13

[21] **3,232,135**
[13] A1
[51] **Int.Cl. H04W 72/12 (2023.01) H04W 74/00 (2009.01)**
[25] EN
[54] **SYSTEMS, METHODS, AND NON-TRANSITORY PROCESSOR-READABLE MEDIA FOR INDICATING REPETITION INFORMATION FOR RETRANSMISSIONS**
[54] **SYSTEMES, PROCEDES ET SUPPORTS NON TRANSITOIRES LISIBLES PAR PROCESSEUR POUR INDIQUER DES INFORMATIONS DE REPETITION POUR DES RETRANSMISSIONS**
[72] LIU, XING, CN
[72] HAN, XIANGHUI, CN
[72] HAO, PENG, CN
[72] SHI, JING, CN
[71] ZTE CORPORATION, CN
[85] 2024-03-12
[86] 2021-12-29 (PCT/CN2021/142447)
[87] (WO2023/123040)

[21] **3,232,137**
[13] A1
[51] **Int.Cl. C25D 1/04 (2006.01) C25D 3/38 (2006.01) H01M 4/00 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING AN ELECTRODEPOSITED COPPER FOIL FOR LITHIUM SECONDARY BATTERY**
[54] **PROCEDE DE PRODUCTION D'UNE FEUILLE DE CUIVRE ELECTRODEPOSEE POUR BATTERIE SECONDAIRE AU LITHIUM**
[72] JACQMIN, GUILLAUME, BE
[72] ROZEIN, PIERRE, BE
[72] STREEL, MICHEL, BE
[71] CIRCUIT FOIL LUXEMBOURG, LU
[85] 2024-03-18
[86] 2022-12-19 (PCT/EP2022/086789)
[87] (WO2023/118001)
[30] LU (LU501043) 2021-12-20

[21] **3,232,138**
[13] A1
[51] **Int.Cl. B64C 29/00 (2006.01) B64C 39/02 (2023.01)**
[25] EN
[54] **AIRCRAFT**
[54] **AERONEF**
[72] KLUSAK, JURI NIKLAS, DE
[72] LIECKFELDT, NILS, DE
[72] DENECKE, MIRKO JESPER, DE
[72] GURGEL, MAX-CHRISTOPH, DE
[72] SCHOCK, SEBASTIAN, DE
[72] AVERY, CHRISTINE ELIZABETH, DE
[72] TEEGE, JULIAN ARWIN, DE
[72] DRUMMER, CLARA ANDREA, DE
[71] ORTHODRONE GMBH, DE
[85] 2024-03-12
[86] 2022-09-13 (PCT/EP2022/075454)
[87] (WO2023/037014)
[30] DE (20 2021 104 932.4) 2021-09-13

[21] **3,232,140**
[13] A1
[51] **Int.Cl. A61J 15/00 (2006.01) A61M 39/10 (2006.01) A61M 39/20 (2006.01)**
[25] EN
[54] **ENTERAL FEEDING ADAPTERS AND SYSTEMS**
[54] **ADAPTATEURS ET SYSTEMES D'ALIMENTATION ENTERALE**
[72] SCHULTZ, JOSEPH P., US
[71] SCHULTZ, JOSEPH P., US
[85] 2024-03-18
[86] 2022-09-19 (PCT/US2022/076660)
[87] (WO2023/044485)

[21] **3,232,141**
[13] A1
[51] **Int.Cl. E04B 1/26 (2006.01) F16B 2/14 (2006.01) F16B 15/00 (2006.01)**
[25] EN
[54] **CONNECTION MEANS FOR CONNECTING WOODEN PARTS**
[54] **MOYEN DE RACCORDEMENT SERVANT A RELIER DES PIECES EN BOIS**
[72] MADEREBNER, ROLAND, AT
[71] ROTHO BLAAS SRL GMBH, IT
[85] 2024-03-18
[86] 2022-09-22 (PCT/EP2022/076348)
[87] (WO2023/057222)
[30] IT (102021000025349) 2021-10-04

[21] **3,232,143**
[13] A1
[51] **Int.Cl. A61K 47/68 (2017.01) A61K 38/07 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01) C07K 14/71 (2006.01)**
[25] EN
[54] **USE OF ANTIBODY-DRUG CONJUGATE, AND COMBINED DRUG AND USE THEREOF**
[54] **UTILISATION D'UN CONJUGUE ANTICORPS-MEDICAMENT, ET MEDICAMENT COMBINE ET SON UTILISATION**
[72] LI, HU, CN
[72] HU, CHAOHONG, CN
[72] LIU, WENCHAO, CN
[71] SHANGHAI MIRACOGEN INC., CN
[85] 2024-03-12
[86] 2022-09-15 (PCT/CN2022/118964)
[87] (WO2023/040941)
[30] CN (202111088584.9) 2021-09-16

[21] **3,232,145**
[13] A1
[51] **Int.Cl. F28D 19/04 (2006.01)**
[25] EN
[54] **ROTARY REGENERATIVE MACHINE STRUCTURE**
[54] **STRUCTURE DE MACHINE REGENERATIVE ROTATIVE**
[72] STARKS, WILLIAM J., US
[72] ANTES, MARK S., US
[72] FULLER, NICHOLAS A., US
[71] ARVOS LJUNGSTROM LLC, US
[71] STARKS, WILLIAM J., US
[71] ANTES, MARK S., US
[71] FULLER, NICHOLAS A., US
[85] 2024-03-18
[86] 2023-02-28 (PCT/US2023/014123)
[87] (WO2023/219697)
[30] US (63/341,785) 2022-05-13

[21] **3,232,146**
[13] A1
[51] **Int.Cl. A23D 9/02 (2006.01) A23D 9/04 (2006.01) C11B 3/00 (2006.01) C11B 3/10 (2006.01) C11C 3/00 (2006.01)**
[25] EN
[54] **ADSORPTIVE PURIFICATION OF A RENEWABLE FEEDSTOCK**
[54] **PURIFICATION PAR ADSORPTION D'UNE CHARGE RENOUVELABLE**
[72] WAHLSTROM, RONNY, FI
[72] MALM, ANNIKA, FI
[71] NESTE OYJ, FI
[85] 2024-03-18
[86] 2022-10-20 (PCT/EP2022/079223)
[87] (WO2023/067069)
[30] FI (20216100) 2021-10-22

[21] **3,232,147**
[13] A1
[51] **Int.Cl. B01J 19/12 (2006.01) F21V 7/06 (2006.01) F21V 8/00 (2006.01) G01B 11/245 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING RADIATION FROM A SOURCE**
[54] **PROCEDE DE COMMANDE DE RAYONNEMENT A PARTIR D'UNE SOURCE**
[72] PRYSTUPA, DAVID ALLAN, CA
[72] PACAK, JOHN STEPHEN, CA
[71] 12180235 CANADA LTD., CA
[85] 2024-03-18
[86] 2022-09-21 (PCT/CA2022/051397)
[87] (WO2023/044563)
[30] US (63/246,523) 2021-09-21

[21] **3,232,148**
[13] A1
[51] **Int.Cl. G21G 1/04 (2006.01)**
[25] EN
[54] **LIQUID TARGET SYSTEM**
[54] **SYSTEME DE CIBLE LIQUIDE**
[72] JACQUET, PATRICE, BE
[72] MAERTENS, DOMINIC, BE
[72] LEYSEN, WILLEM, BE
[72] HEINITZ, STEPHAN, BE
[71] SCK CEN, BE
[85] 2024-03-18
[86] 2022-12-30 (PCT/EP2022/088084)
[87] (WO2023/151859)
[30] EP (22155720.0) 2022-02-08

[21] **3,232,149**
[13] A1
[51] **Int.Cl. A61K 49/00 (2006.01) A61K 49/08 (2006.01) A61K 49/10 (2006.01) A61K 49/14 (2006.01) A61K 51/04 (2006.01) A61K 51/08 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **MULTIFUNCTIONAL COMPOUNDS FOR USE IN MEDICAL IMAGING AND THERAPY**
[54] **COMPOSES MULTIFONCTIONNELS POUR L?UTILISATION EN IMAGERIE MEDICALE ET EN THERAPIE**
[72] WU, AMY, US
[72] TING, RICHARD, US
[71] ANTELOPE SURGICAL SOLUTIONS, INC., US
[85] 2024-03-18
[86] 2022-09-23 (PCT/US2022/076917)
[87] (WO2023/056221)
[30] US (63/249,180) 2021-09-28

[21] **3,232,150**
[13] A1
[51] **Int.Cl. A24F 23/02 (2006.01) A24B 9/00 (2006.01) A24B 13/00 (2006.01) A24F 25/02 (2006.01)**
[25] EN
[54] **METHOD FOR MOISTURIZING A POUCHED PRODUCT FOR ORAL USE**
[54] **PROCEDE D'HUMIDIFICATION D'UN PRODUIT EN SACHET A USAGE ORAL**
[72] LINDBERG, JONAS, SE
[72] JOHANSSON, GUNNEL, SE
[72] LAI, DENNIS, SE
[71] SWEDISH MATCH NORTH EUROPE AB, SE
[85] 2024-03-12
[86] 2022-09-22 (PCT/EP2022/076325)
[87] (WO2023/046818)
[30] EP (21198473.7) 2021-09-23

[21] **3,232,151**
[13] A1
[51] **Int.Cl. C08G 63/06 (2006.01) A01G 18/00 (2018.01) A01G 24/35 (2018.01) B01D 53/62 (2006.01) C07C 51/00 (2006.01) C07C 51/15 (2006.01) C07C 55/06 (2006.01) C07C 67/03 (2006.01) C07C 67/08 (2006.01) C08G 63/78 (2006.01) C09K 17/00 (2006.01)**
[25] EN
[54] **METHOD FOR GENERATING A HYDROGEL FROM A CO2 GAS STREAM**
[54] **PROCEDE DE PRODUCTION D'UN HYDROGEL A PARTIR D'UN COURANT DE CO2 GAZEUX**
[72] NENU, NICOLETA CRISTINA, NL
[72] VAN DEN BERG, JANA, NL
[72] DAVIES, CHRISTIAN, US
[72] KLEMT, ANDREAS, DE
[71] SHELL INTERNATIONALE RESEARCH MAATSCHAPPIJ B.V., NL
[85] 2024-03-12
[86] 2022-09-20 (PCT/EP2022/076047)
[87] (WO2023/052192)
[30] EP (21199935.4) 2021-09-29

[21] **3,232,152**
[13] A1
[51] **Int.Cl. C07D 243/24 (2006.01) A61K 31/5513 (2006.01) A61K 31/5517 (2006.01) A61P 25/00 (2006.01) C07D 243/26 (2006.01) C07D 487/04 (2006.01)**
[25] EN
[54] **BENZODIAZEPINE DERIVATIVES AS POSITIVE ALLOSTERIC MODULATORS OF THE GABA A GAMMA1 RECEPTOR**
[54] **DERIVES DE BENZODIAZEPINE UTILISES EN TANT QUE MODULATEURS ALLOSTERIQUES POSITIFS DU RECEPTEUR GABA A GAMMA1**
[72] BARTELS, BJOERN, CH
[72] CECERE, GIUSEPPE, CH
[72] GOBBI, LUCA, CH
[72] HERNANDEZ, MARIA-CLEMENCIA, CH
[72] HUMM, ROLAND, CH
[72] OLIVARES MORALES, ANDRES MIGUEL, CH
[72] PATINY-ADAM, ANGELIQUE, CH
[72] RUNTZ-SCHMITT, VALERIE, CH
[72] SCHNIDER, CHRISTIAN, CH
[71] F. HOFFMAN-LA ROCHE AG, CH
[85] 2024-03-12
[86] 2022-10-04 (PCT/EP2022/077509)
[87] (WO2023/057415)
[30] EP (21201128.2) 2021-10-06

[21] **3,232,153**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01) G01N 33/08 (2006.01) G01N 33/66 (2006.01) G01N 33/72 (2006.01) G01N 33/82 (2006.01) G01N 33/84 (2006.01)**
[25] EN
[54] **ANIMAL PRODUCTION SYSTEM**
[54] **SYSTEME DE PRODUCTION D'ANIMAUX**
[72] CESCO, MARCO, CH
[72] LOZANO, CARLOS, CH
[72] SILVA, CLAUDIA, CH
[71] DSM IP ASSETS B.V., NL
[85] 2024-03-08
[86] 2022-10-12 (PCT/EP2022/078402)
[87] (WO2023/062079)
[30] EP (21202130.7) 2021-10-12

[21] **3,232,155**
[13] A1
[51] **Int.Cl. C12Q 1/6886 (2018.01) G16B 25/10 (2019.01)**
[25] EN
[54] **THORACIC DUCT AS A SAMPLE COLLECTION RESERVOIR**
[54] **CONDUIT THORACIQUE UTILISE EN TANT QUE RESERVOIR DE COLLECTE D'ECHANTILLON**
[72] ZEVALLOS, JOSE, US
[72] CHAUDHURI, AADEL, US
[71] WASHINGTON UNIVERSITY, US
[85] 2024-03-18
[86] 2022-09-20 (PCT/US2022/044108)
[87] (WO2023/044148)
[30] US (63/246,208) 2021-09-20

[21] **3,232,156**
[13] A1
[51] **Int.Cl. B65G 17/08 (2006.01) B65G 21/18 (2006.01)**
[25] EN
[54] **SPIRAL CONVEYOR AND DRUM DRIVE FOR SPIRAL CONVEYOR**
[54] **TRANSPORTEUR EN SPIRALE ET ENTRAINEMENT A TAMBOUR POUR UN TRANSPORTEUR EN SPIRALE**
[72] DINGNIS, THOMAS, FR
[72] ELSNER, DIETMAR, DE
[72] GERGELY, JANOS, DE
[71] HABASIT AG, CH
[85] 2024-03-11
[86] 2022-10-11 (PCT/EP2022/078267)
[87] (WO2023/062017)
[30] US (17/503,251) 2021-10-15

[21] **3,232,157**
[13] A1
[51] **Int.Cl. G06F 30/20 (2020.01) G06T 17/10 (2006.01)**
[25] EN
[54] **STOCHASTIC STRUCTURES**
[54] **STRUCTURES STOCHASTIQUES**
[72] CLARE, ADAM, GB
[72] GROTH, JAN-HENDRIK, GB
[72] MAGNINI, MIRCO, GB
[72] TUCK, CHRISTOPHER, GB
[71] SIEMENS ENERGY GLOBAL GMBH & CO. KG, DE
[85] 2024-03-13
[86] 2022-09-07 (PCT/EP2022/074912)
[87] (WO2023/041402)
[30] GB (2113257.6) 2021-09-16
[30] GB (2113258.4) 2021-09-16

[21] **3,232,158**
[13] A1
[51] **Int.Cl. F03B 17/00 (2006.01) F01K 11/00 (2006.01) F01K 25/10 (2006.01)**
[25] EN
[54] **PROCESS AND APPARATUS FOR THE PRODUCTION OF ELECTRIC POWER AVOIDING ENVIRONMENTAL WASTING**
[54] **PROCEDE ET APPAREIL POUR LA PRODUCTION D'ENERGIE ELECTRIQUE EVITANT LE GASPILLAGE ENVIRONNEMENTAL**
[72] BRIZIO, ADRIANA, CH
[71] BRIZIO, ADRIANA, CH
[85] 2024-03-13
[86] 2021-10-04 (PCT/EP2021/077238)
[87] (WO2023/057035)

[21] **3,232,159**
[13] A1
[51] **Int.Cl. D21C 1/02 (2006.01) D21B 1/12 (2006.01) D21C 1/06 (2006.01) D21C 1/10 (2006.01) D21C 3/02 (2006.01) D21H 11/02 (2006.01) D21H 11/08 (2006.01) D21H 11/12 (2006.01)**
[25] EN
[54] **A METHOD FOR PRODUCING A CHEMI-THERMOMECHANICAL FIBROUS PULP FROM NON-WOOD PLANT RAW MATERIALS AND AN AUTOMATED LINE FOR PRODUCING SAID PULP BY SAID METHOD**
[54] **PROCEDE PERMETTANT DE PRODUIRE UNE PATE FIBREUSE CHIMICO-THERMOMECANIQUE A PARTIR DE MATIERES PREMIERES VEGETALES NON LIGNEUSES ET LIGNE AUTOMATISEE PERMETTANT DE PRODUIRE LADITE PATE AU MOYEN DUDIT PROCED**
[72] FRECHKA, VALENTYN, UA
[71] RELEAF PAPER FRANCE SAS, FR
[85] 2024-03-18
[86] 2023-03-22 (PCT/UA2023/000015)
[87] (WO2023/182969)
[30] UA (A 2022 00999) 2022-03-23
[30] UA (PCT/UA2022/000019) 2022-04-19
[30] UA (A 2023 01103) 2023-03-16

[21] **3,232,160**
[13] A1
[51] **Int.Cl. B60P 7/08 (2006.01) B60P 7/135 (2006.01)**
[25] EN
[54] **SYSTEM FOR LASHING A CONTAINER LOAD AND USE THEREOF**
[54] **SYSTEME D'AMARRAGE D'UNE CHARGE DE CONTENEUR ET SON UTILISATION**
[72] VAN BERLO, PERRY, NL
[71] CORDSTRAP B.V., NL
[85] 2024-03-18
[86] 2022-09-20 (PCT/EP2022/076039)
[87] (WO2023/041793)
[30] NL (2029209) 2021-09-20

[21] **3,232,161**
[13] A1
[51] **Int.Cl. B60L 53/30 (2019.01) B60L 53/18 (2019.01) B60L 53/31 (2019.01)**
[25] EN
[54] **CHARGING APPARATUS TO BE MOUNTED TO ANOTHER STRUCTURE, TO PROVIDE ITS OWN CIRCUIT BREAKER, AND TO PROTECT A CABLE**
[54] **APPAREIL DE CHARGE DESTINE A ETRE MONTE SUR UNE AUTRE STRUCTURE, POUR CONSTITUER SON PROPRE COUPE-CIRCUIT, ET POUR PROTEGER UN CABLE**
[72] KATARKI, ADVAIT MADHUSUDAN, US
[72] REESE, ROBERT J., US
[71] EATON INTELLIGENT POWER LIMITED, IE
[85] 2024-03-13
[86] 2022-09-12 (PCT/EP2022/025425)
[87] (WO2023/041194)
[30] US (63/245,240) 2021-09-17

[21] **3,232,162**
[13] A1
[51] **Int.Cl. A24F 40/30 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION DEVICE**
[54] **DISPOSITIF DE FOURNITURE D'AEROSOL**
[72] XIAO, ZHIHUANG, GB
[72] HAINES, RICHARD, GB
[72] YILMAZ, UGURHAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-18
[86] 2022-09-16 (PCT/EP2022/075865)
[87] (WO2023/041752)
[30] GB (2113410.1) 2021-09-20

[21] **3,232,163**
[13] A1
[51] **Int.Cl. G06T 7/593 (2017.01)**
[25] EN
[54] **GENERATING COMPLETE DEPTH DATA FOR 6-DOF VIDEO**
[54] **GENERATION DE DONNEES DE PROFONDEUR COMPLETES POUR VIDEO A 6-DOF**
[72] CHEN, HONGXIN, NL
[72] GU, HAI, NL
[72] MA, FULONG, NL
[71] KONINKLIJKE PHILPS ELECTRONICS N.V., NL
[85] 2024-03-13
[86] 2022-09-07 (PCT/EP2022/074785)
[87] (WO2023/041385)
[30] CN (PCT/CN2021/118795) 2021-09-16
[30] EP (21203090.2) 2021-10-18

[21] **3,232,164**
[13] A1
[51] **Int.Cl. A63B 17/04 (2006.01) A63B 21/002 (2006.01) A63B 21/16 (2006.01) A63B 22/16 (2006.01) A63B 26/00 (2006.01) B65D 65/08 (2006.01)**
[25] EN
[54] **MULTI-MODAL PORTABLE EXERCISE EQUIPMENT**
[54] **EQUIPEMENT D'EXERCICE TRANSPORTABLE MULTIMODAL**
[72] BUI, ALEXANDER, US
[71] BUI, ALEXANDER, US
[85] 2024-03-18
[86] 2022-09-20 (PCT/US2022/076683)
[87] (WO2023/049686)
[30] US (63/246,816) 2021-09-22

[21] **3,232,166**
[13] A1
[51] **Int.Cl. C12Q 1/6869 (2018.01) C12Q 1/6874 (2018.01)**
[25] EN
[54] **METHOD OF DETERMINING A TARGET POLYMER IN A SAMPLE BY USING A GUIDE POLYMER**
[54] **METHODE DE DETERMINATION D'UN POLYMERE CIBLE DANS UN ECHANTILLON A L'AIDE D'UN POLYMERE DE GUIDAGE**
[72] JAYASINGHE, LAKMAL NISHANTHA, GB
[72] WALLACE, ELIZABETH JAYNE, GB
[72] GUTIERREZ, RICHARD ALEXANDER, GB
[72] DUNSTONE, MICHELLE ANNE, AU
[72] SPICER, BRADLEY ALAN, AU
[71] OXFORD NANOPORE TECHNOLOGIES PLC, GB
[71] MONASH UNIVERSITY, AU
[85] 2024-03-13
[86] 2022-10-04 (PCT/EP2022/077537)
[87] (WO2023/057432)
[30] GB (2114183.3) 2021-10-04

[21] **3,232,167**
[13] A1
[51] **Int.Cl. B65B 61/26 (2006.01) B65B 61/02 (2006.01) G06Q 10/08 (2023.01) B21D 51/44 (2006.01) G06K 1/12 (2006.01)**
[25] EN
[54] **APPARATUS AND METHOD OF ENGRAVING MACHINE READABLE INFORMATION ON METALLIC WORKPIECES DURING MANUFACTURING AND RELATED TRACKING SYSTEMS**
[54] **APPAREIL ET PROCEDE DE GRAVURE D'INFORMATIONS LISIBLES PAR MACHINE SUR DES PIECES METALLIQUES A TRAVAILLER PENDANT LA FABRICATION ET SYSTEMES DE SUIVI ASSOCIES**
[72] STOCK, JULIAN, US
[72] PEEVEY, MAXWELL, US
[72] EFNER, JOHN, US
[72] STOWITTS, ADAM P.S., US
[72] BOCK, KAITLYN, US
[72] RINEHART, BRANDON, US
[72] ROSS, JOHN, US
[72] SCOROSANU, ALIN, GB
[71] BALL CORPORATION, US
[85] 2024-03-18
[86] 2022-08-23 (PCT/US2022/041239)
[87] (WO2023/043588)
[30] US (63/245,623) 2021-09-17
[30] US (17/681,549) 2022-02-25

[21] **3,232,168**
[13] A1
[51] **Int.Cl. A61K 31/09 (2006.01) A61K 31/519 (2006.01) A61P 5/26 (2006.01) A61P 5/28 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **HYDROXYPHENYL-ETHYNYL-PHENOL DERIVATIVES AS AR (ANDROGEN RECEPTOR) TRANSCRIPTIONAL ACTIVITY MODULATORS FOR USE IN THE TREATMENT OF I.A. PROSTATE CANCER**
[54] **DERIVES D'HYDROXYPHENYL-ETHYNYL-PHENOL EN TANT QUE MODULATEURS DE L'ACTIVITE TRANSCRIPTIONNELLE DE L'AR (RECEPTEUR DES ANDROGENES) A UTILISER DANS LE TRAITEMENT ENTRE AUTRES DU CA NCER DE LA PROSTATE**
[72] SALVATELLA GIRALT, XAVIER, ES
[72] RIERA ESCALE, ANTONI, ES
[72] FRIGOLE VIVAS, MARTA, ES
[72] SANCHEZ ZARZALEJO, CAROLINA, ES
[72] RUFFONI, ALESSANDRO, ES
[72] VERDAGUER ESPAULELLA, FRANCESC XAVIER, ES
[72] SADAR, MARIANNE DOROTHY, CA
[72] BANUELOS, CARMEN ADRIANA, CA
[72] MAWJI, NASRIN, CA
[71] FUNDACIO INSTITUT DE RECERCA BIOMEDICA (IRB BARCELONA), ES
[71] UNIVERSITAT DE BARCELONA, ES
[71] INSTITUCIO CATALANA DE RECERCA I ESTUDIS AVANCATS, ES
[71] PROVINCIAL HEALTH SERVICES AUTHORITY, CA
[85] 2024-03-14
[86] 2022-09-22 (PCT/EP2022/076442)
[87] (WO2023/061723)
[30] EP (PCT/EP2021/076120) 2021-09-22

[21] **3,232,171**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-CD40 ANTIBODY AND USE THEREOF**
[54] **ANTICORPS ANTI-CD40 ET SON UTILISATION**
[72] LU, ZHENZHEN, CN
[72] WANG, YUJIE, CN
[72] ZHANG, ZHENGPING, CN
[72] XU, HONGJIANG, CN
[72] ZHAO, WEI, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2024-03-18
[86] 2022-09-23 (PCT/CN2022/120689)
[87] (WO2023/046037)
[30] CN (202111123163.5) 2021-09-24

[21] **3,232,173**
[13] A1
[51] **Int.Cl. A61K 47/10 (2017.01) A61P 27/02 (2006.01)**
[25] EN
[54] **OPHTHALMIC PHARMACEUTICAL COMPOSITIONS OF ROFLUMILAST**
[54] **COMPOSITIONS PHARMACEUTIQUES OPHTALMIQUES DE ROFLUMILAST**
[72] GRAHAM, RICHARD, US
[72] GUKASYAN, HOVHANNES JOHN, US
[72] JEFFORDS, ELIZABETH W., US
[72] CHAUDHURI, BHASKAR, US
[71] IOLYX THERAPEUTICS, INC., US
[85] 2024-03-18
[86] 2022-09-20 (PCT/US2022/076726)
[87] (WO2023/044502)
[30] US (63/261,404) 2021-09-20

[21] **3,232,176**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS OF DIAGNOSING BRAIN INJURY**
[54] **METHODES ET SYSTEMES DE DIAGNOSTIC DE LESION CEREBRALE**
[72] MCQUISTON, BETH, US
[72] DATWYLER, SAUL, US
[72] CHANDRAN, RAJ, US
[71] ABBOTT LABORATORIES, US
[85] 2024-03-18
[86] 2022-09-28 (PCT/US2022/077128)
[87] (WO2023/056268)
[30] US (63/250,966) 2021-09-30
[30] US (63/254,285) 2021-10-11
[30] US (63/294,346) 2021-12-28

[21] **3,232,177**
[13] A1
[51] **Int.Cl. H01M 4/136 (2010.01) H01M 4/1397 (2010.01) H01M 10/052 (2010.01)**
[25] EN
[54] **LITHIUM SULFUR CELL**
[54] **PILE AU LITHIUM-SOUFRE**
[72] CHHOWALLA, MANISH, GB
[72] LI, ZHUANGNAN, GB
[71] CAMBRIDGE ENTERPRISE LIMITED, GB
[85] 2024-03-18
[86] 2022-09-20 (PCT/EP2022/076077)
[87] (WO2023/041799)
[30] GB (2113364.0) 2021-09-20

[21] **3,232,178**
[13] A1
[51] **Int.Cl. C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 403/12 (2006.01) C07D 409/14 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 471/10 (2006.01) C07D 487/08 (2006.01) C07D 487/10 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **PYRIDAZINYL AMINO DERIVATIVES AS ALK5 INHIBITORS**
[54] **DERIVES D'AMINO PYRIDAZINYLE EN TANT QU'INHIBITEURS D'ALK5**
[72] PIZZIRANI, DANIELA, IT
[72] RONCHI, PAOLO, IT
[72] GUARIENTO, SARA, IT
[72] PALA, DANIELE, IT
[72] BRUNO, PAOLO, IT
[72] SEMERARO, TERESA, IT
[72] RESCIGNO, DONATELLA, IT
[71] CHIESI FARMACEUTICI S.P.A., IT
[85] 2024-03-18
[86] 2022-09-20 (PCT/EP2022/076130)
[87] (WO2023/046698)
[30] EP (21198025.5) 2021-09-21
[30] EP (21216519.5) 2021-12-21
[30] PK (598/2022) 2022-09-13

[21] **3,232,183**
[13] A1
[51] **Int.Cl. G16B 15/30 (2019.01) G16B 35/10 (2019.01)**
[25] EN
[54] **HIGHLY MULTIPLEXABLE ANALYSIS OF PROTEINS AND PROTEOMES**
[54] **ANALYSE HAUTEMENT MULTIPLEXABLE DE PROTEINES ET DE PROTEOMES**
[72] EGERTSON, JARRETT D., US
[72] SHERMAN, JAMES, US
[72] LOBANOV, VADIM, US
[72] MALLICK, PARAG, US
[72] ANDERSON, ELLIS, US
[71] NAUTILUS SUBSIDIARY, INC., US
[85] 2024-03-18
[86] 2022-10-07 (PCT/US2022/046069)
[87] (WO2023/064181)
[30] US (63/254,420) 2021-10-11

[21] **3,232,184**
[13] A1
[51] **Int.Cl. A45D 44/00 (2006.01) A41G 5/02 (2006.01) A45D 2/48 (2006.01)**
[25] EN
[54] **ELECTRIC APPLICATOR AND METHOD FOR RE-AFFIXING ARTIFICIAL LASH EXTENSIONS AND CURLING NATURAL LASHES AND ARTIFICIAL LASH EXTENSIONS ATTACHED TO NATURAL LASHES**
[54] **APPLICATEUR ELECTRIQUE ET PROCEDE POUR REFIXER DES EXTENSIONS DE CILS ARTIFICIELS ET FRISER DES CILS NATURELS ET DES EXTENSIONS DE CILS ARTIFICIELS FIXEES A DES CILS NATURELS**
[72] LOTTI, SAHARA, US
[71] LASHIFY, INC., US
[85] 2024-03-18
[86] 2022-10-03 (PCT/US2022/045558)
[87] (WO2023/059559)
[30] US (63/252,049) 2021-10-04
[30] US (17/955,303) 2022-09-28

[21] **3,232,185**
[13] A1
[51] **Int.Cl. E05F 15/73 (2015.01)**
[25] EN
[54] **METHOD FOR OPERATING AN AUTOMATIC DOOR SYSTEM AS WELL AS SYSTEM HAVING AN AUTOMATIC DOOR SYSTEM**
[54] **PROCEDE DE FONCTIONNEMENT D'UN SYSTEME DE PORTE AUTOMATIQUE ET SYSTEME DOTE D'UN SYSTEME DE PORTE AUTOMATIQUE**
[72] HAURI, MARCO, CH
[71] ASSA ABLOY ENTRANCE SYSTEMS AB, SE
[85] 2024-03-18
[86] 2022-09-20 (PCT/EP2022/076132)
[87] (WO2023/046700)
[30] SE (2130253-4) 2021-09-23

[21] **3,232,186**
[13] A1
[51] **Int.Cl. B02B 3/00 (2006.01)**
[25] EN
[54] **IMPACT RING AND IMPROVED DEHULLING DEVICE**
[54] **ANNEAU D'IMPACT ET DISPOSITIF DE DECORTICAGE/D'ECOSSAGE AMELIORE**
[72] ROHNER, MARCEL, CH
[72] VAZQUEZ RAMIREZ, MOISES, CH
[72] SIGNER, ULRICH, CH
[72] STUDERUS, LUKAS, CH
[71] BUEHLER AG, CH
[85] 2024-03-18
[86] 2022-09-28 (PCT/EP2022/025450)
[87] (WO2023/057085)
[30] EP (21200949.2) 2021-10-05

[21] **3,232,191**
[13] A1
[51] **Int.Cl. A61K 31/713 (2006.01) C12N 15/113 (2010.01) A61K 48/00 (2006.01) A61P 9/00 (2006.01) C12N 15/11 (2006.01)**
[25] EN
[54] **LPA INHIBITOR AND USE THEREOF**
[54] **INHIBITEUR DE LPA ET SON UTILISATION**
[72] LI, CHONG, CN
[72] GU, WEI, CN
[72] LI, QIAN, CN
[72] YIN, KE, CN
[72] MA, HAIPING, CN
[71] GENOVAL THERAPEUTICS CO., LTD., CN
[85] 2024-03-18
[86] 2022-09-19 (PCT/CN2022/119582)
[87] (WO2023/041079)
[30] CN (202111110773.1) 2021-09-18
[30] CN (202210068123.3) 2022-01-20

[21] **3,232,192**
[13] A1
[51] **Int.Cl. A23C 23/00 (2006.01) A61K 9/00 (2006.01) A61K 9/127 (2006.01) A61K 9/51 (2006.01) A61K 31/00 (2006.01)**
[25] EN
[54] **EXTRACELLULAR VESICLES DERIVED FROM MILK AND PROCESS FOR ISOLATING THE SAME**
[54] **VESICULES EXTRACELLULAIRES DERIVEES DU LAIT ET PROCEDE POUR LES ISOLER**
[72] MEISNER-KOBER, NICOLE C., AT
[72] HINTERSTEINER-WENZEL, MARTIN, AT
[72] MANZOTTI, RAFFAELLA, IT
[72] J.M. DE GROOT, MARTINUS, CH
[71] EVOBIOTIX SA, CH
[85] 2024-03-18
[86] 2022-10-18 (PCT/IB2022/059983)
[87] (WO2023/067490)
[30] CH (CH070433/2021) 2021-10-22
[30] IT (102021000027167) 2021-10-22

[21] **3,232,193**
[13] A1
[51] **Int.Cl. H04B 7/06 (2006.01) H04B 7/0408 (2017.01) H04B 7/0452 (2017.01) H01Q 19/06 (2006.01)**
[25] EN
[54] **LUNEBURG LENS-BASED SYSTEM FOR MASSIVE MIMO**
[54] **SYSTEME A BASE DE LENTILLE DE LUNEBURG POUR MIMO MASSIF**
[72] BAMFORD, LANCE, US
[72] TIERNEY JR., MICHAEL RODY, US
[71] JOHN MEZZALINGUA ASSOCIATES, LLC, US
[85] 2024-03-18
[86] 2022-09-15 (PCT/US2022/076457)
[87] (WO2023/049652)
[30] US (63/247,952) 2021-09-24
[30] US (63/328,895) 2022-04-08

[21] **3,232,194**
[13] A1
[51] **Int.Cl. A61M 5/34 (2006.01)**
[25] EN
[54] **NEEDLE HUB AND INJECTOR USING THE SAME**
[54] **EMBASE D'AIGUILLE ET SERINGUE L'UTILISANT**
[72] KAWASHIMA, KEN, JP
[72] KOBAYASHI, HIROTSUGU, JP
[72] SHIBATA, RYO, JP
[72] FUJISAWA, TORU, JP
[71] TSK LABORATORY, JAPAN, JP
[85] 2024-03-18
[86] 2023-02-10 (PCT/JP2023/004566)
[87] (WO2024/018664)
[30] JP (2022-115785) 2022-07-20

[21] **3,232,195**
[13] A1
[51] **Int.Cl. A47J 31/36 (2006.01) A47J 31/46 (2006.01)**
[25] EN
[54] **APPARATUS FOR MAKING A BEVERAGE BY INFUSION OF A FOOD SUBSTANCE**
[54] **APPAREIL DE PREPARATION D'UNE BOISSON PAR INFUSION D'UNE SUBSTANCE ALIMENTAIRE**
[72] PAOLETTI, LUCIANO, IT
[72] DIAMANTI, MAURIZIO, IT
[72] CASTELLI, CRISTIANO, IT
[72] TONELLI, STEFANO, IT
[71] CAFFITALY SYSTEM S.P.A., IT
[85] 2024-03-18
[86] 2022-09-27 (PCT/IB2022/059169)
[87] (WO2023/052987)
[30] IT (102021000024806) 2021-09-28

[21] **3,232,196**
[13] A1
[51] **Int.Cl. C07K 7/64 (2006.01) A61P 9/10 (2006.01) A61P 17/02 (2006.01) C07K 1/04 (2006.01)**
[25] EN
[54] **DUAL-TARGETING COMPOUND AND PREPARATION METHOD AND APPLICATION THEREOF**
[54] **COMPOSE A DOUBLE CIBLAGE, SON PROCEDE DE PREPARATION ET SON UTILISATION**
[72] CHEN, XIAOYUAN, CN
[72] XU, PENGFEI, CN
[72] WU, XIAOMING, CN
[72] GUO, ZHIDE, CN
[72] YANG, QINGBAO, CN
[72] WEN, XUEJUN, CN
[71] YANTAI LANNACHENG BIOTECHNOLOGY CO., LTD., CN
[85] 2024-03-18
[86] 2022-12-09 (PCT/CN2022/137823)
[87] (WO2023/098920)
[30] CN (202211201081.2) 2022-09-29

[21] **3,232,197**
[13] A1
[51] **Int.Cl. A01K 61/00 (2017.01) A01K 61/60 (2017.01) A01K 61/80 (2017.01) B01F 23/20 (2022.01) A01K 63/00 (2017.01) A01K 63/04 (2006.01) B65D 88/00 (2006.01) C01B 13/02 (2006.01) C01B 13/08 (2006.01) C02F 1/72 (2006.01) C02F 1/74 (2006.01) C02F 3/02 (2006.01) C02F 3/12 (2006.01) C02F 3/20 (2006.01) C02F 7/00 (2006.01)**
[25] EN
[54] **A MOBILE OXYGEN AND COMPRESSED AIR GENERATION SYSTEM IN-STITU WITHOUT ACCUMULATION, WHICH INCREASES THE CONCENTRATIONS OF OXYGEN DISSOLVED IN THE CAGES ON DEMAND**
[54] **SYSTEME MOBILE DE GENERATION D'OXYGENE ET D'AIR COMPRIME IN SITU SANS ACCUMULATION, QUI AUGMENTE LES CONCENTRATIONS D'OXYGENE DISSOUS DANS LES PARCS A POISSONS SUR DEMANDE**
[72] MARCUS DEL CAMPO, JOHN ROBERT, CL
[72] HUSAK SOTOMAYOR, THOMAS WENZEL, CL
[71] OXZO S.A., CL
[85] 2024-03-18
[86] 2021-09-30 (PCT/IB2021/059021)
[87] (WO2023/052825)

[21] **3,232,198**
[13] A1
[51] **Int.Cl. A23C 9/123 (2006.01)**
[25] EN
[54] **METHOD FOR PRODUCING FERMENTED MILK PRODUCTS FOR AMBIENT STORAGE**
[54] **PROCEDE DE PRODUCTION DE PRODUITS LAITIERS FERMENTES POUR LE STOCKAGE A TEMPERATURE AMBIANTE**
[72] HAN, HUI, CN
[72] OEHRSTROEM, METTE, DK
[71] CHR. HANSEN A/S, DK
[85] 2024-03-18
[86] 2022-10-03 (PCT/EP2022/077441)
[87] (WO2023/057370)
[30] CN (PCT/CN2021/122506) 2021-10-04

[21] **3,232,200**
[13] A1
[51] **Int.Cl. B41J 2/175 (2006.01) B41J 2/19 (2006.01)**
[25] EN
[54] **A BUBBLE STOPPER OBJECT FOR AN INK-JET PRINT HEAD**
[54] **OBJET D'ARRET DE BULLES DE TETE D'IMPRESSION A JET D'ENCRE**
[72] MORELLO, GIOVANNI, IT
[71] SICPA HOLDING SA, CH
[85] 2024-03-18
[86] 2022-09-22 (PCT/EP2022/076441)
[87] (WO2023/046864)
[30] EP (21198380.4) 2021-09-22

[21] **3,232,201**
[13] A1
[51] **Int.Cl. B65D 43/06 (2006.01)**
[25] EN
[54] **LID AND CONTAINER ASSEMBLY**
[54] **COUVERCLE ET ENSEMBLE CONTENANT**
[72] CICCONE, VINCENZO, CA
[71] TOP GRADE MOLDS LTD., CA
[85] 2024-03-18
[86] 2022-09-21 (PCT/CA2022/051402)
[87] (WO2023/141694)
[30] US (63/247,050) 2021-09-22

[21] **3,232,202**
[13] A1
[51] **Int.Cl. A61M 5/142 (2006.01) A61M 5/48 (2006.01)**
[25] EN
[54] **CHARACTERIZATION APPARATUS FOR DRUG DELIVERY DEVICES OR SUBCOMPONENTS THEREOF**
[54] **APPAREIL DE CARACTERISATION POUR DISPOSITIFS D'ADMINISTRATION DE MEDICAMENT OU SOUS-COMPOSANTS DE CEUX-CI**
[72] MOGHADDAM, SEYED REZA MIRHASSANI, US
[72] JAZAYERI, JULIAN, US
[72] SANCHEZ, SANDRA, US
[72] HALILI, EDGARDO, US
[72] SALDANA, CINDY, US
[72] VALENZUELA, SERGIO GIOVANNI, US
[71] AMGEN INC., US
[85] 2024-03-08
[86] 2022-09-30 (PCT/US2022/045303)
[87] (WO2023/064119)
[30] US (63/254,294) 2021-10-11

[21] **3,232,203**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01) A61K 35/17 (2015.01)**
[25] EN
[54] **IL5RA CELL SURFACE MARKERS**
[54] **MARQUEURS DE SURFACE CELLULAIRE D'IL5RA**
[72] MATTHAEI, JAMES, US
[72] BEILKE, JOSHUA, US
[72] MILEUR, TREVOR, US
[71] SONOMA BIOTHERAPEUTICS, INC., US
[85] 2024-03-18
[86] 2022-09-22 (PCT/US2022/076862)
[87] (WO2023/049803)
[30] US (63/247,239) 2021-09-22

[21] **3,232,204**
[13] A1
[51] **Int.Cl. A61K 31/343 (2006.01) A61P 1/16 (2006.01) A61P 11/00 (2006.01) A61P 35/00 (2006.01) A61P 43/00 (2006.01) C07D 307/80 (2006.01)**
[25] EN
[54] **NOVEL BENZOFURANYL HYDROXYPHENYL METHANONE DERIVATIVE COMPOUND OR PHARMACEUTICALLY ACCEPTABLE SALT THEREOF**
[54] **NOUVEAU COMPOSE DERIVE DE BENZOFURANYL-HYDROXYPHENYL-METHANONE OU SEL PHARMACEUTIQUEMENT ACCEPTABLE ASSOCIE**
[72] LIM, DONG CHUL, KR
[72] PARK, JUNG GYU, KR
[72] CHOI, SEI HYUN, KR
[71] INNOVO THERAPEUTICS INC., KR
[85] 2024-03-18
[86] 2022-10-07 (PCT/KR2022/015097)
[87] (WO2023/059121)
[30] KR (10-2021-0132806) 2021-10-07

[21] **3,232,205**
[13] A1
[51] **Int.Cl. C08J 3/12 (2006.01) C08K 3/016 (2018.01) C08J 3/22 (2006.01) C08J 3/24 (2006.01) C08K 3/22 (2006.01)**
[25] EN
[54] **HALOGEN FREE FLAME RETARDANT POLYMERIC COMPOSITIONS**
[54] **COMPOSITIONS POLYMERES IGNIFUGES EXEMPTES D'HALOGENE**
[72] CARONIA, PAUL J., US
[72] BOLZ III, KURT A., US
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-03-18
[86] 2022-09-20 (PCT/US2022/044151)
[87] (WO2023/049127)
[30] US (63/246,454) 2021-09-21

[21] **3,232,206**
[13] A1
[51] **Int.Cl. H04N 19/136 (2014.01) H04N 19/593 (2014.01) G06N 3/02 (2006.01)**
[25] EN
[54] **FEATURE MAP ENCODING AND DECODING METHOD AND APPARATUS**
[54] **PROCEDE ET APPAREIL DE CODAGE DE CARTE DE CARACTERISTIQUES ET PROCEDE ET APPAREIL DE DECODAGE DE CARTE DE CARACTERISTIQUES**
[72] SHI, YIBO, CN
[72] GE, YUNYING, CN
[72] WANG, JING, CN
[72] MAO, JUE, CN
[72] ZHAO, YIN, CN
[72] YANG, HAITAO, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-18
[86] 2022-09-08 (PCT/CN2022/117819)
[87] (WO2023/040745)
[30] CN (202111101920.9) 2021-09-18
[30] CN (202210300566.0) 2022-03-25

[21] **3,232,207**
[13] A1
[51] **Int.Cl. F01C 1/22 (2006.01) F01C 21/10 (2006.01)**
[25] EN
[54] **NON-LUBRICATED COMPRESSOR WITH ABRADABLE SEALING ELEMENT AND RELATED METHOD FOR ASSEMBLING IT**
[54] **COMPRESSEUR NON LUBRIFIE DOTE D'UN ELEMENT D'ETANCHEITE ABRADABLE ET SON PROCEDE D'ASSEMBLAGE**
[72] LUYCKX, PIERRE-YVES, BE
[72] BULS, BARTEL, BE
[72] MARIEN, KAREN, BE
[71] ATLAS COPCO AIRPOWER, NAAMLOZE VENNOOTSCHAP, BE
[85] 2024-03-18
[86] 2022-10-05 (PCT/IB2022/059489)
[87] (WO2023/062479)
[30] EP (21202975.5) 2021-10-15

[21] **3,232,208**
[13] A1
[51] **Int.Cl. H01M 50/167 (2021.01) B65D 8/20 (2006.01)**
[25] EN
[54] **DOUBLE SEAMING STRUCTURE AND BATTERY AND CAN HAVING SAME**
[54] **STRUCTURE A DOUBLE COUTURE, BATTERIE ET BOITE ALIMENTAIRE LA COMPRENANT**
[72] KOBAYASHI, TOMOMI, JP
[72] TAKAO, KENICHI, JP
[71] TOYO SEIKAN GROUP HOLDINGS, LTD., JP
[85] 2024-03-18
[86] 2021-09-30 (PCT/JP2021/036027)
[87] (WO2023/053310)

[21] **3,232,209**
[13] A1
[51] **Int.Cl. A61K 31/05 (2006.01) A61K 31/4045 (2006.01) A61K 31/7048 (2006.01) A61K 45/06 (2006.01) A61P 25/22 (2006.01) A61P 25/24 (2006.01) A61P 25/28 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR TREATING PATIENTS WITH DEMENTIA DUE TO ALZHEIMER'S DISEASE WITH A COMBINATION OF THC AND MELATONIN**
[54] **COMPOSITIONS ET METHODES DE TRAITEMENT DE PATIENTS ATTEINTS DE DEMENCE DUE A LA MALADIE D'ALZHEIMER, AU MOYEN D'UNE COMBINAISON DE THC ET DE MELATONINE**
[72] MUKUNDA, RAMACHANDRA, US
[72] RAO, JAGADEESH S., US
[71] IGC PHARMA IP, LLC, US
[85] 2024-03-18
[86] 2022-09-16 (PCT/US2022/076579)
[87] (WO2023/044433)
[30] US (63/245,799) 2021-09-17

[21] **3,232,210**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61K 47/54 (2017.01) A61K 47/55 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **METHOD**
[54] **METHODE**
[72] THEODOSSIOU, THEODOSSIS, NO
[72] BERG, KRISTIAN, NO
[72] ALONSO, MIGUEL ANGEL MIRANDA, ES
[72] VOUGIOUKALAKIS, GEORGIOS C., GR
[72] GRIGALAVICIUS, MANTAS, NO
[72] ROTAS, GEORGIOS, GR
[72] EZZATPANAH, SOMAYEH, NO
[72] RAABE, TINE THERESE HENRIKSEN, NO
[71] OSLO UNIVERSITETSSYKEHUS HF, NO
[71] NATIONAL AND KAPODISTRIAN UNIVERSITY OF ATHENS, GR
[71] VOUGIOUKALAKIS, GEORGIOS C., GR
[71] ROTAS, GEORGIOS, GR
[85] 2024-03-18
[86] 2022-09-20 (PCT/GB2022/052366)
[87] (WO2023/041938)
[30] GR (20210100622) 2021-09-20
[30] EP (22154473.7) 2022-02-01

[21] **3,232,211**
[13] A1
[51] **Int.Cl. A61K 38/47 (2006.01) A61K 38/46 (2006.01)**
[25] EN
[54] **REDUCING OR INHIBITING TISSUE DAMAGE USING HYALURONIDASE ADMINISTRATION**
[54] **REDUCTION OU INHIBITION DE LESION TISSULAIRE A L'AIDE D'ADMINISTRATION D'HYALURONIDASE**
[72] YOELIN, STEVE, US
[71] MED PROGRESS, LLC, US
[85] 2024-03-18
[86] 2022-09-25 (PCT/US2022/076987)
[87] (WO2023/049878)
[30] US (63/248,447) 2021-09-25

[21] **3,232,212**
[13] A1
[51] **Int.Cl. C12N 5/0781 (2010.01) C12N 15/65 (2006.01) C12N 15/85 (2006.01)**
[25] EN
[54] **TRANSGENIC RODENTS FOR CELL LINE IDENTIFICATION AND ENRICHMENT**
[54] **RONGEURS TRANSGENIQUES POUR L'IDENTIFICATION ET L'ENRICHISSEMENT EN LIGNEES CELLULAIRES**
[72] XIANG, PING, CA
[72] WEI, WEI, CA
[72] PELLACANI, DAVIDE, CA
[72] RUSCHMANN, JENS, CA
[71] ABCELLERA BIOLOGICS INC., CA
[85] 2024-03-18
[86] 2022-09-30 (PCT/US2022/077363)
[87] (WO2023/056430)
[30] US (63/261,987) 2021-10-01

[21] **3,232,213**
[13] A1
[51] **Int.Cl. A61K 31/70 (2006.01) A61K 31/01 (2006.01) A61K 31/7004 (2006.01) A61K 31/702 (2006.01)**
[25] EN
[54] **DRUG CONJUGATES OF SUGAR DERIVATIVES AND USES THEREOF AS SENOLYTIC AGENTS**
[54] **CONJUGUES MEDICAMENTEUX DE DERIVES DE SUCRE ET LEURS UTILISATIONS EN TANT QU'AGENTS SENOLYTIQUES**
[72] QUARTA, MARCO, US
[72] GALLOP, MARK A., US
[72] JASPER, JEFFREY R., US
[72] KEITZ, PAUL, US
[72] BERGNES, GUS, US
[71] RUBEDO LIFE SCIENCES, INC., US
[85] 2024-03-08
[86] 2022-09-13 (PCT/US2022/076360)
[87] (WO2023/039600)
[30] US (63/243,539) 2021-09-13

[21] **3,232,214**
[13] A1
[51] **Int.Cl. A61K 38/46 (2006.01) A61K 48/00 (2006.01) C07K 14/195 (2006.01) C12N 5/10 (2006.01) C12N 15/55 (2006.01)**
[25] EN
[54] **MRNA REGULON THERAPY FOR THE TREATMENT OF HAPLOINSUFFICIENCY DISORDERS**
[54] **THERAPIE DE REGULATION DE L'ARNM POUR LE TRAITEMENT DE TROUBLES DE L'HAPLOINSUFFISANCE**
[72] COLLER, JEFFERY, US
[71] THE JOHNS HOPKIN'S UNIVERSITY, US
[85] 2024-03-08
[86] 2022-09-20 (PCT/US2022/076723)
[87] (WO2023/049707)
[30] US (63/246,689) 2021-09-21
[30] US (63/352,530) 2022-06-15

[21] **3,232,215**
[13] A1
[51] **Int.Cl. E03C 1/04 (2006.01)**
[25] EN
[54] **PIVOTING SPRAY HEAD FAUCET**
[54] **ROBINET A TETE DE PULVERISATION PIVOTANTE**
[72] HEUER, DARIN, US
[72] TRACY, ADAM WILLIAM, US
[72] LEYEN, JAN VAN, US
[72] CALLAHAN, BRAD, US
[72] BENSTEAD, EVAN, US
[71] ASSA ABLOY AMERICAS REDIDENTIAL INC., US
[85] 2024-03-08
[86] 2022-09-21 (PCT/US2022/076762)
[87] (WO2023/049734)
[30] US (63/246,327) 2021-09-21

[21] **3,232,216**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **ANTI-EGFR ANTIBODIES, ANTI-CMET ANTIBODIES, ANTI-VEGF ANTIBODIES, MULTISPECIFIC ANTIBODIES, AND USES THEREOF**
[54] **ANTICORPS ANTI-EGFR, ANTICORPS ANTI-CMET, ANTICORPS ANTI-VEGF, ANTICORPS MULTISPECIFIQUES ET LEURS UTILISATIONS**
[72] PU, PU, CN
[72] ZHANG, SONGLING, CN
[72] JIN, YING, CN
[72] MACWILLIAMS, MARIA P., US
[72] FUNG, MAN-CHEONG, US
[72] CHIU, MARK L., US
[71] TAVOTEK BIOTHERAPEUTICS (HONG KONG) LIMITED, CN
[85] 2024-03-08
[86] 2022-10-17 (PCT/US2022/078192)
[87] (WO2023/069888)
[30] US (63/256,705) 2021-10-18

[21] **3,232,217**
[13] A1
[51] **Int.Cl. B63G 8/16 (2006.01) B63C 11/42 (2006.01) B63G 8/08 (2006.01)**
[25] EN
[54] **VECTOR CONTROL ASSEMBLIES FOR UNDERWATER VEHICLES**
[54] **ENSEMBLES DE COMMANDE VECTORIELLE POUR VEHICULES SOUS-MARINS**
[72] TAYLOR, TIMOTHY, US
[72] HAVENS, ROBERT, US
[71] TIBURON SUBSEA INC., US
[85] 2024-03-11
[86] 2022-09-19 (PCT/US2022/044020)
[87] (WO2023/049078)
[30] US (63/246,325) 2021-09-21

[21] **3,232,218**
[13] A1
[51] **Int.Cl. G01N 33/537 (2006.01) G01N 33/543 (2006.01) G01N 33/68 (2006.01)**
[25] EN
[54] **ASSAYS TO QUANTITATE DRUG AND TARGET CONCENTRATIONS**
[54] **DOSAGES DE QUANTIFICATION DE CONCENTRATIONS DE MEDICAMENT ET DE CIBLE**
[72] PARTRIDGE, MICHAEL, US
[72] CHEN, JIHUA, US
[72] KENDRA, KIMBERLY, US
[72] SHANK, STACEY, US
[72] DESTEFANO, LISA, US
[72] ANDISIK, MATTHEW, US
[72] TORRI, ALBERT, US
[72] OLIVEIRA SUMNER, GIANE, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-11
[86] 2022-09-28 (PCT/US2022/045048)
[87] (WO2023/055808)
[30] US (63/249,417) 2021-09-28

[21] **3,232,219**
[13] A1
[51] **Int.Cl. G06N 20/00 (2019.01) G06T 7/60 (2017.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR USE IN PROCESSING IMAGES RELATED TO CROPS**
[54] **PROCEDES ET SYSTEMES DESTINES A ETRE UTILISES DANS LE TRAITEMENT D'IMAGES ASSOCIEES A DES CULTURES**
[72] BRAUER, ROBERT, US
[72] GHALEHJEGH, NIMA HAMIDI, US
[71] MONSANTO TECHNOLOGY LLC, US
[85] 2024-03-11
[86] 2022-09-29 (PCT/US2022/045266)
[87] (WO2023/055960)
[30] US (63/250,629) 2021-09-30

[21] **3,232,220**
[13] A1
[51] **Int.Cl. G10L 17/26 (2013.01) G10L 15/26 (2006.01) G06N 20/00 (2019.01) G10L 17/00 (2013.01)**
[25] EN
[54] **AGE ESTIMATION FROM SPEECH**
[54] **ESTIMATION DE L'AGE A PARTIR DE LA PAROLE**
[72] SARAF, AMRUTA, US
[72] KHOURY, ELIE, US
[72] SIVARAMAN, GANESH, US
[71] PINDROP SECURITY, INC., US
[85] 2024-03-11
[86] 2022-10-05 (PCT/US2022/045777)
[87] (WO2023/059717)
[30] US (63/253,057) 2021-10-06
[30] US (63/253,197) 2021-10-07
[30] US (63/325,047) 2022-03-29

[21] **3,232,221**
[13] A1
[51] **Int.Cl. E21B 47/18 (2012.01) E21B 7/15 (2006.01) E21B 17/02 (2006.01) E21B 47/01 (2012.01)**
[25] EN
[54] **PULSE POWER DRILLING ASSEMBLY TRANSFORMER WITH A CORE HAVING A NON-CONDUCTIVE MATERIAL**
[54] **TRANSFORMATEUR D'ENSEMBLE DE FORAGE A PUISSANCE PULSEE AVEC UN NOYAU AYANT UN MATERIAU NON CONDUCTEUR**
[72] FINKE, MICHAEL D., US
[72] WIECEK, BOGUSLAW, US
[72] MOENY, WILLIAM M., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[71] SDG LLC, US
[85] 2024-03-11
[86] 2022-08-10 (PCT/US2022/074755)
[87] (WO2023/081545)
[30] US (17/453,626) 2021-11-04

[21] **3,232,222**
[13] A1
[51] **Int.Cl. A62C 3/00 (2006.01) A62C 37/12 (2006.01) G06N 20/00 (2019.01) A62C 37/42 (2006.01) G08B 17/02 (2006.01) G08B 17/10 (2006.01)**
[25] EN
[54] **FIRE DETECTION AND WARNING SYSTEMS, DEVICES, AND METHODS FOR KITCHEN VENTILATION**
[54] **SYSTEMES DE DETECTION ET D'AVERTISSEMENT D'INCENDIE, DISPOSITIFS ET PROCEDES POUR VENTILATION DE CUISINE**
[72] LIVCHAK, ANDREY V., US
[72] SANDUSKY, JIMMY, US
[72] LATHAM, JACOB, US
[71] OY HALTON GROUP LTD., FI
[85] 2024-03-11
[86] 2022-08-31 (PCT/US2022/075754)
[87] (WO2023/056154)
[30] US (63/251,274) 2021-10-01

[21] **3,232,223**
[13] A1
[51] **Int.Cl. C07K 16/10 (2006.01)**
[25] EN
[54] **SYNTHETIC HUMANIZED LLAMA NANOBODY LIBRARY AND USE THEREOF TO IDENTIFY SARS-COV-2 NEUTRALIZING ANTIBODIES**
[54] **BANQUE DE NANOCORPS LLAMA HUMANISE SYNTHETIQUE ET SON UTILISATION POUR IDENTIFIER DES ANTICORPS NEUTRALISANT LE SARS-COV-2**
[72] FU, YING, US
[72] FLEMING, BRYAN D., US
[72] RENN, ALEX, US
[72] HALL, MATTHEW D., US
[72] SIMEONOV, ANTON, US
[71] THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES, US
[85] 2024-03-11
[86] 2022-09-09 (PCT/US2022/076221)
[87] (WO2023/044272)
[30] US (63/245,512) 2021-09-17

[21] **3,232,224**
[13] A1
[51] **Int.Cl. C12Q 1/686 (2018.01) C12Q 1/6806 (2018.01) C12N 15/11 (2006.01)**
[25] EN
[54] **LOOPED PRIMER WITH VARIOUS INTERNAL MODIFICATIONS AND LOOP-DE-LOOP METHOD FOR TARGET DETECTION**
[54] **AMORCE EN BOUCLE AVEC DIVERSES MODIFICATIONS INTERNES ET PROCEDE DE BOUCLE-DE-BOUCLE POUR LA DETECTION DE CIBLE**
[72] BALL, CAMERON SCOTT, US
[71] UH-OH LABS INC., US
[85] 2024-03-11
[86] 2022-09-10 (PCT/US2022/076247)
[87] (WO2023/039553)
[30] US (63/243,625) 2021-09-13

[21] **3,232,225**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61P 1/00 (2006.01) A61P 17/00 (2006.01) A61P 37/08 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-SIGLEC-6 ANTIBODIES AND METHODS OF USE THEREOF**
[54] **ANTICORPS ANTI-SIGLEC-6 ET LEURS METHODES D'UTILISATION**
[72] YOUNGBLOOD, BRADFORD A., US
[72] SCHANIN, JULIA, US
[72] LEUNG, JOHN, US
[72] KORVER, WOUTER, US
[72] LUU, THUY, US
[72] BROCK, EMILY C., US
[71] ALLAKOS INC., US
[85] 2024-03-11
[86] 2022-09-15 (PCT/US2022/076497)
[87] (WO2023/044390)
[30] US (63/245,164) 2021-09-16
[30] US (63/310,012) 2022-02-14
[30] US (63/352,964) 2022-06-16

[21] **3,232,226**
[13] A1
[51] **Int.Cl. C07D 231/56 (2006.01) C07D 401/14 (2006.01) C07D 403/14 (2006.01)**
[25] EN
[54] **COMBINED PHARMACEUTICAL COMPOSITION OF CDK4/6 INHIBITOR AND AROMATASE INHIBITOR**
[54] **COMPOSITION PHARMACEUTIQUE COMBINEE D'INHIBITEUR DE CDK4/6 ET D'INHIBITEUR D'AROMATASE**
[72] FENG, FAN, CN
[72] YU, DING, CN
[72] ZHANG, XIQUAN, CN
[72] WANG, YUETING, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD., CN
[85] 2024-03-19
[86] 2022-09-27 (PCT/CN2022/121752)
[87] (WO2023/046200)
[30] CN (202111133804.5) 2021-09-27

[21] **3,232,227**
[13] A1
[51] **Int.Cl. A46B 5/04 (2006.01) A46B 9/04 (2006.01)**
[25] EN
[54] **PET TOOTHBRUSH**
[54] **BROSSE A DENTS POUR ANIMAL DE COMPAGNIE**
[72] AXELROD, GLEN S., US
[72] GAJRIA, AJAY, US
[72] FETTER, MARY LOUISE, US
[71] T.F.H. PUBLICATIONS, INC., US
[85] 2024-03-11
[86] 2022-10-27 (PCT/US2022/078788)
[87] (WO2023/077004)
[30] US (63/263,164) 2021-10-28

[21] **3,232,228**
[13] A1
[51] **Int.Cl. A23K 40/30 (2016.01) A23K 20/147 (2016.01) A23K 50/42 (2016.01) A23K 20/163 (2016.01) A23K 20/189 (2016.01)**
[25] EN
[54] **CHITOSAN CONTAINING PET CHEWS**
[54] **PRODUITS A MACHER POUR ANIMAL DE COMPAGNIE CONTENANT DU CHITOSANE**
[72] AXELROD, GLEN S., US
[72] GAJRIA, AJAY, US
[71] T.F.H. PUBLICATIONS, INC., US
[85] 2024-03-11
[86] 2022-10-31 (PCT/US2022/078957)
[87] (WO2023/077115)
[30] US (63/263,366) 2021-11-01

[21] **3,232,229**
[13] A1
[51] **Int.Cl. B60T 15/02 (2006.01) B60T 8/36 (2006.01) B60T 13/68 (2006.01) F16K 15/03 (2006.01) F16K 27/02 (2006.01)**
[25] EN
[54] **PRESSURE CONTROL VALVE**
[54] **SOUPAPE DE REGULATION DE PRESSION**
[72] GREGG, KENNETH, US
[72] GREBE, JAN, US
[72] HOFFMANN, CHRISTOPH, US
[72] UPPONI, CHINMAY, US
[72] BELTRAN MENDOZA, MANUEL EDUARDO, US
[71] BENDIX COMMERCIAL VECHILE SYSTEMS LLC, US
[85] 2024-03-11
[86] 2022-11-21 (PCT/US2022/080204)
[87] (WO2023/092110)
[30] US (17/532,158) 2021-11-22

[21] **3,232,230**
[13] A1
[51] **Int.Cl. A61N 1/378 (2006.01) H02J 50/10 (2016.01) H01Q 1/52 (2006.01)**
[25] EN
[54] **IMPLANTABLE MEDICAL DEVICE WITH WINDOW FOR WIRELESS POWER TRANSFER**
[54] **DISPOSITIF MEDICAL IMPLANTABLE AVEC FENETRE POUR LE TRANSFERT D'ENERGIE SANS FIL**
[72] BOBGAN, JEAN M., US
[72] CHEN, JOEY, US
[72] ENGLISH, JAMES M., IE
[72] MAILE, KEITH R., US
[72] SWANSON, BRIAN T., US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[85] 2024-03-12
[86] 2022-09-23 (PCT/US2022/044530)
[87] (WO2023/049340)
[30] US (63/247,897) 2021-09-24

[21] **3,232,232**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/4439 (2006.01) A61P 25/08 (2006.01) C07D 413/14 (2006.01) C07D 471/04 (2006.01) C07D 491/04 (2006.01)**
[25] EN
[54] **PYRIDINE DERIVATIVES AND THEIR USE AS SODIUM CHANNEL ACTIVATORS**
[54] **DERIVES DE PYRIDINE ET LEUR UTILISATION EN TANT QU'ACTIVATEURS DE CANAUX SODIQUES**
[72] LOFSTRAND, VERNER, CA
[72] KIM, JUNG YUN, CA
[72] CLEMENT, HELEN, CA
[72] CHARIFSON, PAUL, CA
[72] JOHNSTONE, SHAWN, CA
[72] SABBATANI, JULIETTE, CA
[72] SCHOLTES, JAN FELIX, CA
[72] ZHANG, WEI, CA
[72] SUN, SHAOYI, CA
[72] BURFORD, KRISTEN, CA
[71] XENON PHARMACEUTICALS INC., CA
[85] 2024-03-13
[86] 2022-09-23 (PCT/US2022/044559)
[87] (WO2023/049364)
[30] US (63/248,330) 2021-09-24

[21] **3,232,234**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C07K 16/28 (2006.01) A61P 27/02 (2006.01)**
[25] EN
[54] **NOVEL WNT AGONIST ANTIBODIES AND THERAPEUTIC USES THEREOF**
[54] **NOUVEAUX ANTICORPS AGONISTES DE WNT ET LEURS UTILISATIONS THERAPEUTIQUES**
[72] LIU, BIN, US
[72] LEE, NAM-KYUNG, US
[72] BIDLINGMAIER, SCOTT, US
[72] SU, YANG, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-03-14
[86] 2022-09-20 (PCT/US2022/076706)
[87] (WO2023/044498)
[30] US (63/246,250) 2021-09-20

[21] **3,232,235**
[13] A1
[51] **Int.Cl. G06N 3/02 (2006.01) G16H 50/30 (2018.01) G16H 50/50 (2018.01) G06N 20/00 (2019.01) A61B 6/03 (2006.01)**
[25] EN
[54] **BONE FRACTURE RISK PREDICTION USING LOW-RESOLUTION CLINICAL COMPUTED TOMOGRAPHY (CT) SCANS**
[54] **PREDICTION DE RISQUE DE FRACTURE OSSEUSE A L'AIDE DE TOMODENSITOGRAMMES CLINIQUES A BASSE RESOLUTION**
[72] FRAZER, LANCE L., US
[72] NICOLELLA, DANIEL P., US
[72] LOUIS, NATHAN, US
[71] SOUTHWEST RESEARCH INSTITUTE, US
[85] 2024-03-12
[86] 2022-09-26 (PCT/US2022/076988)
[87] (WO2023/049879)
[30] US (63/261,690) 2021-09-27

[21] **3,232,237**
[13] A1
[51] **Int.Cl. C07D 401/14 (2006.01) A61K 31/443 (2006.01) A61K 31/4433 (2006.01) A61K 31/4439 (2006.01) A61K 31/444 (2006.01) A61K 31/497 (2006.01) A61K 31/501 (2006.01) A61K 31/506 (2006.01) A61P 25/08 (2006.01) C07D 403/12 (2006.01) C07D 403/14 (2006.01) C07D 405/04 (2006.01) C07D 405/12 (2006.01) C07D 405/14 (2006.01) C07D 413/12 (2006.01) C07D 413/14 (2006.01)**
[25] EN
[54] **PYRIDINYL DERIVATIVES AS SODIUM CHANNEL ACTIVATORS**
[54] **DERIVES DE PYRIDINYLE EN TANT QU'ACTIVATEURS DE CANAUX SODIQUES**
[72] BURFORD, KRISTEN, CA
[72] LOFSTRAND, VERNER, CA
[72] KIM, JUNG YUN, CA
[72] CLEMENT, HELEN, CA
[72] CHARIFSON, PAUL, CA
[72] CLARK, MICHAEL, CA
[71] XENON PHARMACEUTICALS INC., CA
[85] 2024-03-12
[86] 2022-09-23 (PCT/US2022/044566)
[87] (WO2023/049369)
[30] US (63/248,341) 2021-09-24

[21] **3,232,238**
[13] A1
[51] **Int.Cl. C22B 11/00 (2006.01) B03D 1/08 (2006.01) C22B 1/02 (2006.01) C22B 3/02 (2006.01) C22B 3/04 (2006.01) C22B 3/22 (2006.01) C22B 11/08 (2006.01)**
[25] EN
[54] **RECOVERING GOLD**
[54] **RECUPERATION D'OR**
[72] SEAMAN, DAVID, AU
[72] FUTCHER, WILLIAM, AU
[72] O'CALLAGHAN, JOHN, AU
[72] VOLLERT, LUKE, AU
[71] NEWCREST MINING LIMITED, AU
[85] 2024-03-13
[86] 2022-12-16 (PCT/AU2022/051519)
[87] (WO2023/108226)
[30] AU (2021904110) 2021-12-17

[21] **3,232,240**
[13] A1
[51] **Int.Cl. E21B 43/12 (2006.01) E21B 41/00 (2006.01) F04D 13/10 (2006.01)**
[25] EN
[54] **OIL TRANSPORT STRUCTURE IN AN ELECTRIC MOTOR OF AN ELECTRIC SUBMERSIBLE PUMP (ESP) ASSEMBLY**
[54] **STRUCTURE DE TRANSPORT D'HUILE DANS UN MOTEUR ELECTRIQUE D'UN ENSEMBLE POMPE SUBMERSIBLE ELECTRIQUE (ESP)**
[72] HU, YUZHU, US
[72] ZHENG, DEZHI, US
[72] SUN, YU DONG, CN
[72] BROWN, DONN J., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-12
[86] 2022-10-03 (PCT/US2022/045537)
[87] (WO2023/091242)
[30] US (17/529,065) 2021-11-17

[21] **3,232,242**
[13] A1
[51] **Int.Cl. C07D 257/06 (2006.01) C07D 403/12 (2006.01)**
[25] EN
[54] **SUBSTITUTED BENZAMIDES AS HERBICIDES**
[54] **BENZAMIDES SUBSTITUES UTILISES EN TANT QU'HERBICIDES**
[72] BURTON, PAUL MATTHEW, GB
[72] ARMSTRONG, SARAH, GB
[71] SYNGENTA CROP PROTECTION AG, CH
[85] 2024-03-19
[86] 2022-10-13 (PCT/EP2022/078501)
[87] (WO2023/066784)
[30] GB (2115018.0) 2021-10-20

[21] **3,232,243**
[13] A1
[51] **Int.Cl. G09B 23/28 (2006.01)**
[25] EN
[54] **MUSCLE BLOCKS AND INJECTION TRAINERS INCLUDING A MUSCLE BLOCK**
[54] **BLOCS MUSCULAIRES ET DISPOSITIFS DE FORMATION POUR INJECTIONS COMPRENANT UN BLOC MUSCULAIRE**
[72] LAFOLLETTE, JONATHAN, US
[72] HUNTER, CHRISTOPHER, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-19
[86] 2022-10-11 (PCT/US2022/077902)
[87] (WO2023/064765)
[30] US (63/255,151) 2021-10-13

[21] **3,232,245**
[13] A1
[51] **Int.Cl. C07C 69/33 (2006.01) A61Q 19/10 (2006.01) C07C 67/08 (2006.01) C09K 23/34 (2022.01)**
[25] EN
[54] **BIOBASED POLYGLYCERYL ESTERS AND COMPOSITIONS COMPRISING THE SAME**
[54] **ESTERS DE POLYGLYCERYLE D'ORIGINE BIOLOGIQUE ET COMPOSITIONS LES COMPRENANT**
[72] FEVOLA, MICHAEL J., US
[72] MOSSER, GARY B., US
[72] PEASE, BRITTANY M., US
[72] ZHANG, ZONGYU, US
[71] INOLEX INVESTMENT CORPORATION, US
[85] 2024-03-12
[86] 2022-10-08 (PCT/US2022/046130)
[87] (WO2023/059925)
[30] US (63/253,662) 2021-10-08

[21] **3,232,246**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 10/08 (2023.01) G06Q 50/10 (2012.01) G06N 3/08 (2023.01)**
[25] EN
[54] **METHODS, SYSTEMS, AND COMPUTER PROGRAM PRODUCT FOR VALIDATING DRUG PRODUCT PACKAGE CONTENT USING TIERED EVALUATION FACTORS**
[54] **PROCEDES, SYSTEMES ET PRODUIT-PROGRAMME INFORMATIQUE POUR VALIDER UN CONTENU D'EMBALLAGE DE PRODUIT MEDICAMENTEUX A L'AIDE DE FACTEURS D'EVALUATION A GRADINS**
[72] LEWIS, RUSSELL F., US
[72] SWANSON, ARTHUR F., US
[72] JENKINS, TODD MARTIN, US
[71] PARATA SYSTEMS, LLC, US
[85] 2024-03-12
[86] 2022-09-27 (PCT/US2022/077073)
[87] (WO2023/056246)
[30] US (63/249,304) 2021-09-28

[21] **3,232,247**
[13] A1
[51] **Int.Cl. B60N 2/14 (2006.01)**
[25] EN
[54] **SWIVEL SEAT ASSEMBLY WITH A KICKSTAND MECHANISM**
[54] **ENSEMBLE SIEGE PIVOTANT DOTE D'UN MECANISME DE BEQUILLE**
[72] ZHAO, KAI, US
[72] VETERE II, LOUIS, US
[72] RUNDE, DAVID M., US
[72] RUDBERG, JAMES, US
[72] KURZEJA, KRISTOF M., US
[71] MAGNA SEATING INC., CA
[85] 2024-03-12
[86] 2022-10-20 (PCT/US2022/047198)
[87] (WO2023/069565)
[30] US (63/257,813) 2021-10-20

[21] **3,232,249**
[13] A1
[51] **Int.Cl. E21B 47/18 (2012.01) E21B 7/15 (2006.01) E21B 17/02 (2006.01) E21B 47/01 (2012.01)**
[25] EN
[54] **PULSE POWER DRILLING ASSEMBLY TRANSFORMER WITH A CORE HAVING INSULATIVE AND ELECTRICALLY CONDUCTIVE MATERIALS**
[54] **TRANSFORMATEUR D'ENSEMBLE DE FORAGE A ENERGIE PULSEE COMPORTANT UN NOYAU COMPORTANT DES MATERIAUX ISOLANTS ET ELECTROCONDUCTEURS**
[72] FINKE, MICHAEL D., US
[72] WIECEK, BOGUSLAW, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-12
[86] 2022-08-10 (PCT/US2022/074753)
[87] (WO2023/081544)
[30] US (17/453,604) 2021-11-04

[21] **3,232,251**
[13] A1
[51] **Int.Cl. A61K 31/7088 (2006.01) C12N 15/113 (2010.01) C12Q 1/6883 (2018.01) A61P 27/06 (2006.01)**
[25] EN
[54] **TREATMENT OF GLAUCOMA WITH RHO GUANINE NUCLEOTIDE EXCHANGE FACTOR 12 (ARHGEF12) INHIBITORS**
[54] **TRAITEMENT DU GLAUCOME PAR DES INHIBITEURS DU FACTEUR 12 D'ECHANGE DES NUCLEOTIDES DE LA RHO GUANINE (ARHGEF12)**
[72] PRAVEEN, KAVITA, US
[72] COPPOLA, GIOVANNI, US
[72] FERREIRA, MANUEL ALLEN REVEZ, US
[72] GURSKI, LAUREN, US
[72] BARAS, ARIS, US
[72] SCHURMANN, CLAUDIA, US
[71] REGENERON PHARAMACEUTICALS, INC., US
[85] 2024-03-12
[86] 2022-09-28 (PCT/US2022/077176)
[87] (WO2023/056295)
[30] US (63/250,492) 2021-09-30

[21] **3,232,253**
[13] A1
[51] **Int.Cl. G01N 15/10 (2024.01) G01N 1/30 (2006.01) G01N 33/58 (2006.01) H01J 49/00 (2006.01)**
[25] EN
[54] **SPATIAL BARCODING FOR SUSPENSION MASS CYTOMETRY**
[54] **CODAGE A BARRES SPATIAL POUR UNE CYTOMETRIE DE MASSE EN SUSPENSION**
[72] THOM, COLIN, CA
[71] STANDARD BIOTOOLS CANADA INC., CA
[85] 2024-03-19
[86] 2022-09-22 (PCT/US2022/044407)
[87] (WO2023/049276)
[30] US (63/247,611) 2021-09-23

[21] **3,232,254**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 39/00 (2006.01) A61P 35/00 (2006.01) C07K 14/725 (2006.01)**
[25] EN
[54] **SIGNALING DOMAINS FOR CHIMERIC ANTIGEN RECEPTORS**
[54] **DOMAINES DE SIGNALISATION POUR RECEPTEURS ANTIGENIQUES CHIMERIQUES**
[72] AYVAR, RICARDO, US
[72] FENG, JUN, US
[72] GUEVARA, CLAUDIA I., US
[72] MURAKAMI, JODI, US
[72] NOWYHED, HEBA N., US
[72] WYMAN, SARAH K., US
[71] KITE PHARMA, INC., US
[85] 2024-03-12
[86] 2022-10-18 (PCT/US2022/078283)
[87] (WO2023/069936)
[30] US (63/256,956) 2021-10-18

[21] **3,232,255**
[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING CORNEAL TISSUE HEALTH**
[54] **METHODE ET SYSTEME DE SURVEILLANCE DE LA SANTE DE TISSU CORNEEN**
[72] AKPEK, ESEN K., US
[72] BALAJI, GOPALAN V., US
[72] DE LA CRUZ, JOSE J., US
[72] FLECK, THEODORE C., US
[72] GURCZENSKI, GENEVIEVE M., US
[72] SCHMIEDEL, THOMAS B., US
[71] W. L. GORE & ASSOCIATES, INC., US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/043989)
[87] (WO2023/044108)
[30] US (63/246,219) 2021-09-20
[30] US (63/276,221) 2021-11-05
[30] US (63/388,094) 2022-07-11

[21] **3,232,256**
[13] A1
[51] **Int.Cl. B29B 17/02 (2006.01)**
[25] EN
[54] **PROCESS AND PLANT FOR THE CONTINUOUS PROCESSING OF FLAKES FORMED BY AT LEAST TWO DIFFERENT PLASTIC MATERIALS ATTACHED TO EACH OTHER**
[54] **PROCEDE ET INSTALLATION POUR LE TRAITEMENT EN CONTINU DE FLOCONS FORMES PAR AU MOINS DEUX MATIERES PLASTIQUES DIFFERENTES FIXEES L'UNE A L'AUTRE**
[72] NAVONE, CLAUDIO, IT
[71] AMUT S.P.A., IT
[85] 2024-03-19
[86] 2022-09-20 (PCT/IB2022/058859)
[87] (WO2023/047269)
[30] EP (21198183.2) 2021-09-22

[21] **3,232,257**
[13] A1
[51] **Int.Cl. F16H 48/36 (2012.01) B60K 1/02 (2006.01) F16H 48/10 (2012.01)**
[25] EN
[54] **ELECTRIC AXLE DRIVE FOR AN AXLE OF A MOTOR VEHICLE, IN PARTICULAR A MOTOR CAR, AND MOTOR VEHICLE, IN PARTICULAR MOTOR CAR**
[54] **ENTRAINEMENT D'ESSIEU ELECTRIQUE POUR UN ESSIEU D'UN VEHICULE A MOTEUR, EN PARTICULIER UNE VOITURE A MOTEUR, ET VEHICULE A MOTEUR, EN PARTICULIER VOITURE A MOTEUR**
[72] STEFFENS, FRANK, DE
[72] LUCKMANN, JENS, DE
[72] STROELIN, MARC, DE
[72] KLEIN, MARC, DE
[72] VINCON, FLORIAN, DE
[71] DAIMLER TRUCK AG, DE
[85] 2024-03-19
[86] 2022-11-21 (PCT/EP2022/082600)
[87] (WO2023/089171)
[30] DE (10 2021 005 765.1) 2021-11-22

[21] **3,232,261**
[13] A1
[51] **Int.Cl. B65D 41/32 (2006.01) B65D 41/34 (2006.01)**
[25] EN
[54] **CAP FOR CONTAINERS**
[54] **BOUCHON POUR CONTENANTS**
[72] FALZONI, ALESSANDRO, IT
[71] SACMI COOPERATIVA MECCANICI IMOLA SOCIETA' COOPERATIVA, IT
[85] 2024-03-19
[86] 2022-10-07 (PCT/IB2022/059613)
[87] (WO2023/057978)
[30] IT (102021000025709) 2021-10-07

[21] **3,232,262**
[13] A1
[51] **Int.Cl. B65D 83/22 (2006.01) B65D 83/20 (2006.01) B65D 83/46 (2006.01)**
[25] EN
[54] **AEROSOL ACTUATOR**
[54] **ACTIONNEUR D'AEROSOL**
[72] ARMINAK, ARMIN, US
[71] APACKAGING GROUP LLC, US
[85] 2024-03-12
[86] 2022-11-15 (PCT/US2022/079893)
[87] (WO2023/087026)
[30] US (63/279,533) 2021-11-15
[30] US (18/055,122) 2022-11-14

[21] **3,232,263**
[13] A1
[51] **Int.Cl. B25J 9/16 (2006.01)**
[25] EN
[54] **METHOD FOR CONTROLLING A CONSTRUCTION ROBOT AND CONSTRUCTION ROBOT**
[54] **PROCEDE PERMETTANT DE COMMANDER UN ROBOT DE CONSTRUCTION ET ROBOT DE CONSTRUCTION**
[72] BRUGGER, PETER, AT
[72] ZANONA, JULIA, AT
[72] NORNES, STEIN M., NO
[72] STRAND, EIRIK, NO
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-03-13
[86] 2022-10-17 (PCT/EP2022/078795)
[87] (WO2023/072651)
[30] EP (21205451.4) 2021-10-29

[21] **3,232,264**
[13] A1
[51] **Int.Cl. C12N 5/071 (2010.01) C12N 5/10 (2006.01) C12N 5/0735 (2010.01) A61K 35/545 (2015.01)**
[25] EN
[54] **CELL POPULATIONS AND GENE EXPRESSION ASSOCIATED WITH IN VITRO BETA CELL DIFFERENTIATION**
[54] **POPULATIONS DE CELLULES ET EXPRESSION GENIQUE ASSOCIEES A LA DIFFERENCIATION DE CELLULES BETA IN VITRO**
[72] MELTON, DOUGLAS, A., US
[72] VERES, ADRIAN, US
[72] FAUST, AUBREY, L., US
[72] BUSHNELL, HENRY, L., US
[71] PRESIDENT AND FELLLOWS OF HARVARD COLLEGE, US
[85] 2024-03-13
[86] 2022-09-28 (PCT/US2022/045111)
[87] (WO2023/055849)
[30] US (63/249,546) 2021-09-28

[21] **3,232,267**
[13] A1
[51] **Int.Cl. B32B 17/10 (2006.01)**
[25] EN
[54] **AUTOMOTIVE WINDOW LAMINATE STRUCTURE, THERMOPLASTIC LAMINATED SHEET STRUCTURE FOR USE THEREIN AND TRANSPORT VEHICLE PROVIDED WITH THE SAME**
[54] **STRUCTURE DE STRATIFIE DE FENETRE D'AUTOMOBILE, STRUCTURE DE FEUILLE STRATIFIEE THERMOPLASTIQUE DESTINEE A ETRE UTILISEE DANS CELLE-CI ET VEHICULE DE TRANSPORT COMPORTANT CELLE-CI**
[72] DRIEHUIS, BARTHOLOMEUS LEONARDUS MARINUS BORCHERD, NL
[71] AUTOGLAS D & K B.V., NL
[85] 2024-03-19
[86] 2022-09-19 (PCT/NL2022/050525)
[87] (WO2023/059182)
[30] NL (2029331) 2021-10-07

[21] **3,232,268**
[13] A1
[51] **Int.Cl. A01M 29/08 (2011.01) C03C 17/22 (2006.01) E06B 3/66 (2006.01)**
[25] EN
[54] **GLASS PANE WITH A COATING FOR REDUCING BIRD COLLISIONS**
[54] **VITRE DOTEE D'UN REVETEMENT POUR REDUIRE LES COLLISIONS AVEC LES OISEAUX**
[72] THOMPSON, OSKAR, DE
[72] HAGEN, JAN, DE
[71] SAINT-GOBAIN GLASS FRANCE, FR
[85] 2024-03-19
[86] 2023-02-22 (PCT/EP2023/054347)
[87] (WO2023/186406)
[30] EP (22164946.0) 2022-03-29

[21] **3,232,270**
[13] A1
[51] **Int.Cl. A61K 35/30 (2015.01) A61F 2/07 (2013.01) A61L 27/36 (2006.01) A61L 27/50 (2006.01)**
[25] EN
[54] **NERVE GRAFT SYSTEMS, DEVICES, AND METHODS**
[54] **SYSTEMES, DISPOSITIFS ET METHODES DE GREFFE NERVEUSE**
[72] SOLETTI, LORENZO, US
[72] CWALINA, NICOLE, US
[72] BURGER, BRANDON, US
[72] FAUST, ANNE E., US
[72] BORCHERDING, SYDNEY E., US
[71] RENERVA, LLC, US
[85] 2024-03-12
[86] 2022-09-30 (PCT/US2022/045365)
[87] (WO2023/056008)
[30] US (63/250,379) 2021-09-30
[30] US (63/295,642) 2021-12-31
[30] US (63/329,597) 2022-04-11

[21] **3,232,271**
[13] A1
[51] **Int.Cl. A61K 8/36 (2006.01) A61K 8/365 (2006.01) A61K 8/368 (2006.01) A61K 8/67 (2006.01) A61Q 19/08 (2006.01)**
[25] EN
[54] **METHOD OF IMPROVING THE APPEARANCE OF SKIN**
[54] **PROCEDE D'AMELIORATION DE L'ASPECT DE LA PEAU**
[72] EHRMAN, MATTHEW CLAIR, SG
[72] HAKOZAKI, TOMOHIRO, US
[72] OBLONG, JOHN ERICH, US
[72] DISSANAYAKE, DISSANAYAKE MUDIYANSELAGE MAHATHMA BANDARA, US
[72] CHUNG, WAN TING, SG
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-12
[86] 2022-11-29 (PCT/US2022/080524)
[87] (WO2023/097320)
[30] US (63/283,733) 2021-11-29

[21] **3,232,272**
[13] A1
[51] **Int.Cl. A61K 9/70 (2006.01)**
[25] EN
[54] **TRANSDERMAL THERAPEUTIC SYSTEM FOR THE TRANSDERMAL ADMINISTRATION OF TIZANIDINE**
[54] **SYSTEME THERAPEUTIQUE TRANSDERMIQUE POUR L'ADMINISTRATION TRANSDERMIQUE DE TIZANIDINE**
[72] WOLF, HANS-WERNER, DE
[72] EMGENBROICH, MARCO, DE
[72] REUM, NICO, DE
[72] PLATT, BEATRIX, DE
[72] SCHLUTER, ANNA, DE
[72] BOHM, ROLF, DE
[72] BUSCHER, ZARAH, DE
[71] LTS LOHMANN THERAPIE-SYSTEME AG, DE
[85] 2024-03-19
[86] 2022-10-14 (PCT/EP2022/078678)
[87] (WO2023/062201)
[30] EP (21202959.9) 2021-10-15

[21] **3,232,273**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 9/19 (2006.01) A61K 9/20 (2006.01) A61K 31/519 (2006.01) A61K 45/06 (2006.01) A61K 47/42 (2017.01) A61P 43/00 (2006.01)**
[25] EN
[54] **METHODS AND PRODUCTS FOR TREATING SUBJECTS WITH AUTISM SPECTRUM DISORDERS**
[54] **PROCEDES ET PRODUITS POUR TRAITER DES SUJETS ATTEINTS DE TROUBLES DU SPECTRE AUTISTIQUE**
[72] ZISAPEL, NAVA, IL
[72] LAUDON, MOSHE, IL
[71] NEURIM PHARMACEUTICALS (1991) LTD., IL
[85] 2024-03-19
[86] 2022-10-03 (PCT/IB2022/059429)
[87] (WO2023/057879)
[30] US (63/251,935) 2021-10-04

[21] **3,232,274**
[13] A1
[51] **Int.Cl. G01N 33/574 (2006.01) A61B 5/00 (2006.01) G01N 33/564 (2006.01)**
[25] EN
[54] **DRAIN FLUID FOR DIAGNOSTICS**
[54] **FLUIDE DE DRAINAGE POUR DIAGNOSTIC**
[72] ZEVALLOS, JOSE P., US
[72] CHAUDHURI, AADEL, US
[72] LAPIDUS, STANLEY N., US
[72] TRIBBLE, THERESA, US
[71] DROPLET BIOSCIENCES, INC., US
[71] THE WASHINGTON UNIVERSITY, US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/044010)
[87] (WO2023/044117)
[30] US (63/246,253) 2021-09-20
[30] US (63/282,449) 2021-11-23

[21] **3,232,277**
[13] A1
[51] **Int.Cl. E04C 2/10 (2006.01) E04C 2/36 (2006.01)**
[25] EN
[54] **SYSTEM, APPARATUS, AND METHOD FOR PROVIDING A PLANT-BASED STRUCTURAL ASSEMBLY**
[54] **SYSTEME, APPAREIL ET PROCEDE POUR FOURNIR UN ENSEMBLE STRUCTURAL A BASE DE PLANTE**
[72] WATKINS, VIRGINIA, US
[71] ORB TECHNOLOGIES, LLC, US
[85] 2024-03-19
[86] 2022-10-05 (PCT/US2022/077570)
[87] (WO2023/060102)
[30] US (17/496,371) 2021-10-07

[21] **3,232,278**
[13] A1
[51] **Int.Cl. E05B 81/76 (2014.01) E05B 85/10 (2014.01)**
[25] EN
[54] **VEHICLE DOOR CONTROL METHOD AND DEVICE, AND VEHICLE AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE ET DISPOSITIF DE COMMANDE DE PORTE DE VEHICULE, ET VEHICULE ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] QIU, SHOUFA, CN
[72] LAI, NAN, CN
[72] WU, XIUXIA, CN
[72] ZHOU, QIANQIAN, CN
[72] LI, FANGCHENG, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-19
[86] 2022-12-26 (PCT/CN2022/141901)
[87] (WO2023/125403)
[30] CN (202111649687.8) 2021-12-30

[21] **3,232,279**
[13] A1
[51] **Int.Cl. A61B 17/221 (2006.01)**
[25] EN
[54] **METHODS AND APPARATUS FOR CATHETERS, ADAPTABLE TIPS FOR CATHETERS, INCLUDING FOR ASPIRATION CATHETERS, AND ASPIRATION CATHETERS WITH ADJUSTABLE TIPS**
[54] **PROCEDES ET APPAREIL POUR CATHETERS, EMBOUTS ADAPTABLES POUR CATHETERS, Y COMPRIS POUR CATHETERS D'ASPIRATION, ET CATHETERS D'ASPIRATION A EMBOUTS AJUSTABLES**
[72] HORI, TREVOR, US
[72] KROLIK, JEFFERY, US
[72] SAN DIEGO, EDSEL, US
[72] NGUYEN, JOHN, US
[71] Q'APEL MEDICAL, INC., US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/044281)
[87] (WO2023/049203)
[30] US (63/247,102) 2021-09-22

[21] **3,232,281**
[13] A1
[51] **Int.Cl. E21B 17/02 (2006.01) E21B 17/00 (2006.01) E21B 23/00 (2006.01)**
[25] EN
[54] **AUTO-INSULATING CONCENTRIC WET-MATE ELECTRICAL CONNECTOR FOR DOWNHOLE APPLICATIONS**
[54] **CONNECTEUR ELECTRIQUE A ACCOUPLEMENT PAR VOIE HUMIDE CONCENTRIQUE AUTO-ISOLANT POUR APPLICATIONS DE FOND DE TROU**
[72] MINASSA, LORENZZO, US
[72] FERNANDES, MARCO ANTONIO DOS SANTOS, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-13
[86] 2022-07-14 (PCT/US2022/073749)
[87] (WO2023/076752)
[30] US (63/272,013) 2021-10-26
[30] US (17/812,708) 2022-07-14

[21] **3,232,282**
[13] A1
[51] **Int.Cl. B65D 71/42 (2006.01)**
[25] EN
[54] **ARTICLE CARRIER AND BLANK THEREFOR**
[54] **SUPPORT D'ARTICLE ET EBAUCHE CORRESPONDANTE**
[72] MERZEAU, JULIEN, FR
[72] MARTINI, PASCAL, FR
[72] GARNIER, JEAN-MICHEL, FR
[72] CHESNET, LAUREN N., US
[72] LYON, JONATHAN, US
[71] WESTROCK PACKAGING SYSTEMS, LLC, US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/044298)
[87] (WO2023/049220)
[30] US (63/246,926) 2021-09-22

[21] **3,232,283**
[13] A1
[51] **Int.Cl. G01N 33/74 (2006.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR MEASURING PROGESTERONE METABOLITES**
[54] **PROCEDES ET SYSTEMES DE MESURE DE METABOLITES DE PROGESTERONE**
[72] HOLMQUIST, BRETT, US
[72] MORR KELEMEN, MARY KATHERINE, US
[71] LABORATORY CORPORATION OF AMERICA HOLDINGS, US
[85] 2024-03-13
[86] 2022-10-27 (PCT/US2022/048078)
[87] (WO2023/076509)
[30] US (63/272,517) 2021-10-27

[21] **3,232,284**
[13] A1
[51] **Int.Cl. B01D 46/00 (2022.01) B01D 46/10 (2006.01)**
[25] FR
[54] **PASSIVE DEVICE FOR CAPTURING MICROPARTICLES IN SUSPENSION IN THE AIR**
[54] **DISPOSITIF PASSIF DE CAPTURE DES MICROPARTICULES EN SUSPENSION DANS L'AIR**
[72] PHAM, CHARLOTTE, FR
[72] VIEVILLE, CHRISTOPHE, FR
[72] HERTEL, NICOLAS, FR
[72] BA, HOUSSEINOU, FR
[72] NHUT, JEAN-MARIO, FR
[72] PHAM-HUU, CUONG, FR
[72] VIGNERON, FABRICE, FR
[72] TRUONG-PHUOC, LAI, FR
[72] TRINH, TUAN-HOANG, FR
[71] TRAPAPART, FR
[71] CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE, FR
[71] UNIVERSITE DE STRASBOURG, FR
[85] 2024-03-19
[86] 2022-10-13 (PCT/IB2022/059815)
[87] (WO2023/062573)
[30] FR (FR2110910) 2021-10-14
[30] FR (FR2113509) 2021-12-14
[30] FR (FR2208715) 2022-08-31

[21] **3,232,285**
[13] A1
[51] **Int.Cl. H05K 7/20 (2006.01)**
[25] EN
[54] **COOLING DEVICE FOR MOTOR CONTROLLER, MOTOR CONTROLLER, AND VEHICLE**
[54] **DISPOSITIF DE REFROIDISSEMENT POUR DISPOSITIF DE COMMANDE DE MOTEUR, DISPOSITIF DE COMMANDE DE MOTEUR ET VEHICULE**
[72] LING, HEPING, CN
[72] LIU, HAIJUN, CN
[72] ZHANG, HAIXING, CN
[72] TAN, XIN, CN
[72] HUANG, DANDAN, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-19
[86] 2022-11-25 (PCT/CN2022/134371)
[87] (WO2023/124681)
[30] CN (202123405296.X) 2021-12-31

[21] **3,232,286**
[13] A1
[51] **Int.Cl. A01N 33/12 (2006.01) A01N 25/34 (2006.01) A01N 33/02 (2006.01) A01N 25/00 (2006.01)**
[25] EN
[54] **QUAT-BASED COMPOSTABLE AND BIODEGRADABLE PREMOISTENED CLEANING AND DISINFECTING WIPES SYSTEM**
[54] **SYSTEME DE LINGETTES NETTOYANTES ET DE DESINFECTION PREHUMIDIFIEES COMPOSTABLES ET BIODEGRADABLES A BASE DE QUAT**
[72] FRANK, SOPHIA, US
[72] GLAUBER, JOHN, US
[72] AUDISS, TIM, US
[71] THE CLOROX COMPANY, US
[85] 2024-03-13
[86] 2022-09-02 (PCT/US2022/075924)
[87] (WO2023/059968)
[30] US (63/253,387) 2021-10-07
[30] US (17/882,227) 2022-08-05

[21] **3,232,287**
[13] A1
[51] **Int.Cl. G01R 31/388 (2019.01)**
[25] EN
[54] **BATTERY CAPACITY ESTIMATION METHOD AND APPARATUS, AND COMPUTER STORAGE MEDIUM**
[54] **PROCEDE ET APPAREIL D'ESTIMATION DE CAPACITE DE BATTERIE ET SUPPORT DE STOCKAGE INFORMATIQUE**
[72] SHU, SHIWEI, CN
[72] FENG, TIANYU, CN
[72] DENG, LINWANG, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-19
[86] 2022-09-14 (PCT/CN2022/118754)
[87] (WO2023/093225)
[30] CN (202111422355.6) 2021-11-26

[21] **3,232,288**
[13] A1
[51] **Int.Cl. G06F 3/048 (2013.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR ALGORITHMIC RENDERING OF GRAPHICAL USER INTERFACE ELEMENTS**
[54] **SYSTEME ET PROCEDE DE RENDU ALGORITHMIQUE D'ELEMENTS D'INTERFACE UTILISATEUR GRAPHIQUE**
[72] PIPER, ADAM, US
[71] AKILI INTERACTIVE LABS, INC., US
[85] 2024-03-19
[86] 2022-09-20 (PCT/US2022/044111)
[87] (WO2023/044150)
[30] US (63/246,230) 2021-09-20

[21] **3,232,289**
[13] A1
[51] **Int.Cl. C07K 14/765 (2006.01) A23L 27/40 (2016.01) A61K 9/08 (2006.01) A61K 38/38 (2006.01) A61K 47/02 (2006.01)**
[25] EN
[54] **INERT MATRICES FOR QUALITATIVE AND SEMI-QUANTITATIVE SEED AMPLIFICATION ASSAYS**
[54] **MATRICES INERTES POUR DOSAGES D'AMPLIFICATION DE SEMENCES QUALITATIFS ET SEMI-QUANTITATIFS**
[72] CONCHA, LUIS, US
[72] FARRIS, CARLY, US
[72] MA, YIHUA, US
[72] NGUYEN, HIEU, HUU, US
[71] AMPRION, INC., US
[85] 2024-03-13
[86] 2022-09-09 (PCT/US2022/076243)
[87] (WO2023/039552)
[30] US (63/243,470) 2021-09-13
[30] US (63/328,443) 2022-04-07

[21] **3,232,290**
[13] A1
[51] **Int.Cl. C08F 2/00 (2006.01) B01D 21/26 (2006.01) C08F 10/00 (2006.01)**
[25] EN
[54] **HYDROCYCLONE MODIFICATION OF CATALYST SYSTEM COMPONENTS FOR USE IN OLEFIN POLYMERIZATIONS**
[54] **MODIFICATION D'HYDROCYCLONE DE COMPOSANTS DE SYSTEME CATALYSEUR DESTINES A ETRE UTILISES DANS DES POLYMERISATIONS D'OLEFINES**
[72] CRUZ, CARLOS, A., US
[72] REFVIK, MITCHELL, D., US
[72] MCDANIEL, MAX, P., US
[72] SCOTT, MARK, US
[72] MERK, EVAN, US
[71] CHEVRON PHILLIPS CHEMICAL COMPANY, US
[71] THE SHEPHERD CHEMICAL COMPANY, US
[85] 2024-03-13
[86] 2022-09-12 (PCT/US2022/076299)
[87] (WO2023/039581)
[30] US (63/243,228) 2021-09-13

[21] **3,232,293**
[13] A1
[51] **Int.Cl. C10L 5/06 (2006.01) C22B 1/14 (2006.01) C22B 1/24 (2006.01) C22B 1/242 (2006.01) C22B 1/243 (2006.01) C22B 1/244 (2006.01)**
[25] EN
[54] **COLD-PRESSED SOLID AGGLOMERATE, AND ITS PRODUCTION PROCESS**
[54] **AGGLOMERAT SOLIDE PRESSE A FROID ET SON PROCEDE DE PRODUCTION**
[72] DE OLIVEIRA, RONALD LOPES, BR
[72] GONCALVES, GUILHERME FRANCISCO, BR
[72] POTTER, STEPHEN MICHAEL, BR
[72] BRASIL, LUDMILA LOPES NASCIMENTO, BR
[72] BENEVIDES, JOZILENE PEREIRA, BR
[72] TAVARES, HAROLDO DE SOUZA, BR
[72] GONCALVES, CLAUDECIR SILVA, BR
[72] RAMOS, CELSO, BR
[71] TECNORED DESENVOLVIMENTO TECNOLOGICO S.A., BR
[85] 2024-03-19
[86] 2022-08-22 (PCT/BR2022/050327)
[87] (WO2023/039652)
[30] BR (1020210187166) 2021-09-20

[21] **3,232,294**
[13] A1
[51] **Int.Cl. A61B 3/00 (2006.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR MONITORING CORNEAL TISSUE HEALTH**
[54] **METHODE ET SYSTEME DE SURVEILLANCE DE LA SANTE DE TISSU CORNEEN**
[72] BALAJI, GOPALAN V., US
[72] DE LA CRUZ, JOSE J., US
[72] FLECK, THEODORE C., US
[72] GURCZENSKI, GENEVIEVE M., US
[72] SCHMIEDEL, THOMAS B., US
[72] AKPEK, ESEN K., US
[71] W. L. GORE & ASSOCIATES, INC., US
[71] THE JOHNS HOPKINS UNIVERSITY, US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/043982)
[87] (WO2023/044105)
[30] US (63/246,219) 2021-09-20
[30] US (63/276,221) 2021-11-05
[30] US (63/388,094) 2022-07-11

[21] **3,232,295**
[13] A1
[51] **Int.Cl. C08L 67/04 (2006.01) C08K 5/29 (2006.01) C08L 67/02 (2006.01)**
[25] EN
[54] **RESIN COMPOSITION, DOWNHOLE TOOL OR MEMBER THEREOF, PLUG, AND WELL TREATMENT METHOD**
[54] **COMPOSITION DE RESINE, OUTIL DE FOND DE TROU OU ELEMENT ASSOCIE, BOUCHON ET PROCEDE DE TRAITEMENT DE PUITS**
[72] KOBAYASHI, TAKUMA, JP
[72] SUGA, TAKAHIRO, JP
[71] KUREHA CORPORATION, JP
[85] 2024-03-19
[86] 2022-09-14 (PCT/JP2022/034307)
[87] (WO2023/053955)
[30] JP (2021-159575) 2021-09-29

[21] **3,232,296**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/11 (2006.01)**
[25] EN
[54] **METHOD AND PRESSURE SENSOR UNIT**
[54] **PROCEDE ET UNITE DE DETECTION DE PRESSION**
[72] SANTAGATA, DANILO, CH
[72] ZUZO, RIJAD, CH
[72] SEGER, HEINI, CH
[71] KARMA TECHNOLOGIES AG, CH
[85] 2024-03-19
[86] 2022-09-29 (PCT/EP2022/077107)
[87] (WO2023/052497)
[30] EP (21200161.4) 2021-09-30

[21] **3,232,297**
[13] A1
[51] **Int.Cl. H01M 4/04 (2006.01) H01M 4/13 (2010.01) H01M 4/133 (2010.01) H01M 4/139 (2010.01) H01M 4/1393 (2010.01) H01M 4/587 (2010.01)**
[25] EN
[54] **PRE-LITHIATION OF LITHIUM-ION BATTERY ANODES**
[54] **PRE-LITHIATION D'ANODES DE BATTERIE AU LITHIUM-ION**
[72] CHEN., Y. M., US
[72] HAO, XIAOGUANG, US
[72] WANG, YIKAI, US
[72] HINTZE, MARK (DECEASED), XX
[71] ALBEMARLE CORPORATION, US
[85] 2024-03-19
[86] 2022-09-20 (PCT/US2022/044096)
[87] (WO2023/049102)
[30] US (63/246,937) 2021-09-22

[21] **3,232,300**
[13] A1
[51] **Int.Cl. A47J 37/06 (2006.01) A47J 37/07 (2006.01)**
[25] EN
[54] **COMBUSTION OVEN**
[54] **FOUR DE COMBUSTION**
[72] WEILERT, JEFFREY R., US
[72] MAGHSADI, ALEXANDER K., US
[71] SOLO BRANDS, LLC, US
[85] 2024-03-19
[86] 2022-09-23 (PCT/US2022/044503)
[87] (WO2023/055661)
[30] US (17/490,442) 2021-09-30

[21] **3,232,301**
[13] A1
[51] **Int.Cl. B24D 13/20 (2006.01) B24D 7/10 (2006.01) B24D 13/14 (2006.01) B24D 13/18 (2006.01)**
[25] EN
[54] **BUFFING PAD**
[54] **TAMPON DE POLISSAGE**
[72] UMBRELL, RICHARD, US
[71] BUFF AND SHINE MANUFACTURING, INC., US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/044292)
[87] (WO2023/049214)
[30] US (29/808,610) 2021-09-21
[30] US (29/847,822) 2022-07-28

[21] **3,232,303**
[13] A1
[51] **Int.Cl. F28D 7/02 (2006.01) F28D 7/10 (2006.01) F28D 20/00 (2006.01)**
[25] EN
[54] **IMPROVED THERMAL STORE**
[54] **ACCUMULATEUR THERMIQUE AMELIORE**
[72] MACNAGHTEN, JAMES DONNELLY, GB
[72] CHANA, KRISHAN, GB
[72] SLEE, WILLIAM RANULF, GB
[72] WINSTANLEY, GUY ALEXANDER JAMES, GB
[71] CALDERA HEAT BATTERIES LIMITED, GB
[85] 2024-03-19
[86] 2022-10-28 (PCT/GB2022/000084)
[87] (WO2023/073334)
[30] GB (2115529.6) 2021-10-28
[30] GB (2205907.5) 2022-04-22

[21] **3,232,304**
[13] A1
[51] **Int.Cl. A61K 31/4725 (2006.01) A61K 39/395 (2006.01) A61P 35/00 (2006.01)**
[25] EN
[54] **USE OF ANTI-CD40 ANTIBODY**
[54] **UTILISATION D'ANTICORPS ANTI-CD40**
[72] SHEN, CHEN, CN
[72] LV, PENG, CN
[72] TIAN, XIN, CN
[72] YANG, LING, CN
[72] ZHANG, XIQUAN, CN
[71] CHIA TAI TIANQING PHARMACEUTICAL GROUP CO., LTD, CN
[85] 2024-03-19
[86] 2022-09-26 (PCT/CN2022/121184)
[87] (WO2023/046131)
[30] CN (202111127584.5) 2021-09-26

[21] **3,232,306**
[13] A1
[51] **Int.Cl. A61B 90/98 (2016.01) A61M 5/31 (2006.01) G06K 19/077 (2006.01)**
[25] EN
[54] **MEDICAL INJECTION DEVICE AND METHOD FOR ASSEMBLING THIS INJECTION DEVICE**
[54] **DISPOSITIF D'INJECTION MEDICAL ET PROCEDE D'ASSEMBLAGE DUDIT DISPOSITIF D'INJECTION**
[72] EUVRARD, NICOLAS, US
[72] LEIBBRAND, ALFRED, FR
[71] BECTON, DICKINSON AND COMPANY, US
[71] BECTON DICKINSON FRANCE, FR
[85] 2024-03-19
[86] 2022-09-30 (PCT/EP2022/077287)
[87] (WO2023/052585)
[30] EP (21306378.7) 2021-10-01

[21] **3,232,307**
[13] A1
[51] **Int.Cl. C11D 1/83 (2006.01) C11D 3/065 (2006.01) C11D 3/08 (2006.01) C11D 3/10 (2006.01) C11D 11/00 (2006.01) C23C 22/66 (2006.01) C23G 1/14 (2006.01)**
[25] EN
[54] **BORATE-FREE, AQUEOUS COMPOSITION FOR CLEANING AND TREATING METALLIC SUBSTRATES**
[54] **COMPOSITION AQUEUSE EXEMPTE DE BORATE POUR LE NETTOYAGE ET LE TRAITEMENT DE SUBSTRATS METALLIQUES**
[72] ROESNER, BERIT, DE
[72] KOMP, CAROLA, DE
[71] CHEMETALL GMBH, DE
[85] 2024-03-19
[86] 2022-09-26 (PCT/EP2022/076659)
[87] (WO2023/046952)
[30] EP (21199169.0) 2021-09-27

[21] **3,232,308**
[13] A1
[51] **Int.Cl. C07D 495/04 (2006.01)**
[25] EN
[54] **DIARYLOXYBENZOHETERODIAZOLE COMPOUNDS DISUBSTITUTED WITH THIENOTHIOPHENE GROUPS**
[54] **COMPOSES DIARYLOXYBENZOHETERODIAZOLE DI-SUBSTITUES PAR DES GROUPES THIENOTHIOPHENE**
[72] ABBONDANZA, LUIGI, IT
[72] SCHIMPERNA, GIULIANA, IT
[72] TACCA, ALESSANDRA, IT
[72] MARRAZZO, ROSAMARIA, IT
[71] ENI S.P.A., IT
[85] 2024-03-19
[86] 2022-12-09 (PCT/IB2022/061969)
[87] (WO2023/105475)
[30] IT (102021000031064) 2021-12-10

[21] **3,232,309**
[13] A1
[51] **Int.Cl. F16K 1/46 (2006.01) F16K 1/36 (2006.01) F16K 1/42 (2006.01)**
[25] EN
[54] **PRESSURIZED DUAL PACKING SEAL VALVE**
[54] **SOUPAPE A DOUBLE JOINT D'ETANCHEITE SOUS PRESSION**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-19
[86] 2022-09-13 (PCT/US2022/043349)
[87] (WO2023/048992)
[30] US (17/485,674) 2021-09-27

[21] **3,232,311**
[13] A1
[51] **Int.Cl. F16J 15/324 (2016.01)**
[25] EN
[54] **ROTATING SHAFT SEAL HAVING AN EASILY INSTALLED AND EASILY REMOVED INTERNAL COOLING CHANNEL**
[54] **JOINT D'ARBRE TOURNANT DOTE D'UN CANAL DE REFROIDISSEMENT INTERNE FACILE A INSTALLER ET A RETIRER**
[72] RYNEARSON, RODNEY WAYNE, US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-19
[86] 2022-09-15 (PCT/US2022/043610)
[87] (WO2023/043887)
[30] US (17/479,535) 2021-09-20

[21] **3,232,312**
[13] A1
[51] **Int.Cl. H01M 4/02 (2006.01) H01M 4/04 (2006.01) H01M 4/38 (2006.01) H01M 4/58 (2010.01)**
[25] EN
[54] **LITHIUM METAL NEGATIVE ELECTRODE AND ELECTROCHEMICAL DEVICE COMPRISING THE SAME**
[54] **ELECTRODE NEGATIVE METALLIQUE AU LITHIUM ET DISPOSITIF ELECTROCHIMIQUE LA COMPRENANT**
[72] LEE, DO-JOONG, KR
[72] KIM, KI-HYUN, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-19
[86] 2023-01-12 (PCT/KR2023/000611)
[87] (WO2023/136642)
[30] KR (10-2022-0004911) 2022-01-12

[21] **3,232,314**
[13] A1
[51] **Int.Cl. A61K 31/38 (2006.01) A61K 31/4995 (2006.01) A61K 45/06 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **METHODS OF DOSING OF APICAL SODIUM-DEPENDENT BILE ACID TRANSPORTER INHIBITORS (ASBTIS)**
[54] **METHODES DE DOSAGE D'INHIBITEURS DE TRANSPORTEUR D'ACIDE BILIAIRE DEPENDANT DU SODIUM APICAL (ASBTI)**
[72] PEETZ, CHRISTOPHER, US
[71] MIRUM PHARMACEUTICALS, INC., US
[85] 2024-03-19
[86] 2022-10-25 (PCT/US2022/047694)
[87] (WO2023/076243)
[30] US (63/271,916) 2021-10-26
[30] US (63/280,470) 2021-11-17
[30] US (63/354,424) 2022-06-22

[21] **3,232,315**
[13] A1
[51] **Int.Cl. H01M 50/538 (2021.01) H01M 50/167 (2021.01) H01M 50/183 (2021.01) H01M 50/213 (2021.01)**
[25] EN
[54] **CYLINDRICAL BATTERY, CURRENT COLLECTOR APPLIED THERETO, AND BATTERY PACK AND VEHICLE INCLUDING THE CYLINDRICAL BATTERY**
[54] **BATTERIE CYLINDRIQUE ET COLLECTEUR DE COURANT APPLIQUE A CELLE-CI, ET BLOC-BATTERIE ET VEHICULE COMPRENANT UNE TELLE BATTERIE CYLINDRIQUE**
[72] LIM, JAE-WON, KR
[72] KIM, HAK-KYUN, KR
[72] LEE, JE-JUN, KR
[72] JUNG, JI-MIN, KR
[72] CHOI, SU-JI, KR
[71] LG ENERGY SOLUTION, LTD., KR
[85] 2024-03-19
[86] 2022-11-28 (PCT/KR2022/019008)
[87] (WO2023/101352)
[30] KR (10-2021-0169769) 2021-12-01
[30] KR (10-2022-0088437) 2022-07-18

[21] **3,232,316**
[13] A1
[51] **Int.Cl. H01M 50/244 (2021.01) H01M 50/258 (2021.01)**
[25] EN
[54] **BATTERY CELL UNIT, BATTERY, AND VEHICLE**
[54] **UNITE DE CELLULE DE BATTERIE, BATTERIE ET VEHICULE**
[72] GUO, YONGMING, CN
[72] LANG, XIAOQIANG, CN
[72] CHEN, WEI, CN
[72] ZHOU, YANFEI, CN
[72] CHEN, YAOLEI, CN
[71] BYD COMPANY LIMITED, CN
[85] 2024-03-19
[86] 2022-11-23 (PCT/CN2022/133706)
[87] (WO2023/093759)
[30] CN (202122922163.3) 2021-11-24

[21] **3,232,317**
[13] A1
[51] **Int.Cl. A61K 31/4995 (2006.01) A61K 31/554 (2006.01) A61K 31/7042 (2006.01) A61P 1/16 (2006.01)**
[25] EN
[54] **APICAL SODIUM-DEPENDENT TRANSPORTER INHIBITOR COMPOSITIONS**
[54] **COMPOSITIONS D'INHIBITEUR DE TRANSPORTEUR DEPENDANT DU SODIUM APICAL**
[72] KOMMURU, THIRUMALA, US
[72] BRITTAIN, JASON E., US
[72] HWANG, HELEN, US
[72] VIG, PAMELA, US
[71] MIRUM PHARMACEUTICALS, INC., US
[85] 2024-03-19
[86] 2022-10-25 (PCT/US2022/047719)
[87] (WO2023/076260)
[30] US (63/271,857) 2021-10-26

[21] **3,232,318**
[13] A1
[51] **Int.Cl. B64C 39/02 (2023.01) B64D 47/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR TETHERED DRONES**
[54] **SYSTEMES ET PROCEDES POUR DRONES CAPTIFS**
[72] SCHUMANN, ROBERT, US
[72] ELDERING, GERARD, US
[72] ELDERING, CHARLES A., US
[72] WERNICK, BRANDON, US
[72] MARKSON, TED, US
[71] BLUE VIGIL LLC, US
[85] 2024-03-12
[86] 2022-09-13 (PCT/US2022/076332)
[87] (WO2023/039590)
[30] US (63/243,389) 2021-09-13

[21] **3,232,322**
[13] A1
[51] **Int.Cl. A61K 39/35 (2006.01) A61K 39/395 (2006.01) A61P 37/02 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR INDUCING IMMUNE TOLERANCE**
[54] **COMPOSITIONS ET PROCEDES D'INDUCTION D'UNE TOLERANCE IMMUNITAIRE**
[72] LUKACS, NICHOLAS W., US
[72] ELESELA, SRIKANTH, US
[72] HOGAN, SIMON, US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[85] 2024-03-19
[86] 2022-10-06 (PCT/US2022/045853)
[87] (WO2023/059769)
[30] US (63/253,431) 2021-10-07
[30] US (63/288,915) 2021-12-13

[21] **3,232,323**
[13] A1
[51] **Int.Cl. A61K 8/36 (2006.01) A61K 8/67 (2006.01)**
[25] EN
[54] **A PERSONAL CARE COMPOSITION COMPRISING VITAMIN K2 AND HYDROXYSTEARIC ACID**
[54] **COMPOSITION DE SOINS PERSONNELS COMPRENANT DE LA VITAMINE K2 ET DE L'ACIDE HYDROXYSTEARIQUE**
[72] BOSE, PERMITA, NL
[72] DAMODARAN, ANITA, NL
[72] GU, XUELAN, NL
[72] VENKATESH, SATISH KUMAR, NL
[72] KUMARI, ANNU, NL
[72] MI, TINGYAN, NL
[72] NAIR, NIRMALA SANTOSH, NL
[72] SADAWARTE, ASHWINI, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-03-19
[86] 2022-10-10 (PCT/EP2022/078160)
[87] (WO2023/061962)
[30] CN (PCT/CN2021/123468) 2021-10-13
[30] EP (21210941.7) 2021-11-29

[21] **3,232,324**
[13] A1
[51] **Int.Cl. A61M 5/30 (2006.01) A61M 5/31 (2006.01) A61M 5/315 (2006.01)**
[25] EN
[54] **NEEDLELESS SYRINGE SYSTEM HAVING ADJUSTABLE DRUG INJECTION ATTRIBUTES**
[54] **SYSTEME D'INJECTION SANS AIGUILLE A ATTRIBUTS D'INJECTION DE MEDICAMENT REGLABLES**
[72] KIM, JUNG KOOK, KR
[72] HAM, HWI CHAN, KR
[72] LEE, SUNG HUN, KR
[71] BAZBIOMEDIC CO., LTD., KR
[85] 2024-03-19
[86] 2022-05-10 (PCT/KR2022/006671)
[87] (WO2023/054831)
[30] KR (10-2021-0129752) 2021-09-30

[21] **3,232,325**
[13] A1
[51] **Int.Cl. H04W 68/00 (2009.01)**
[25] EN
[54] **METHODS, DEVICES, AND SYSTEMS FOR TRANSMITTING AND RECEIVING SIGNAL FOR PAGING MESSAGES**
[54] **PROCEDES, DISPOSITIFS ET SYSTEMES D'EMISSION ET DE RECEPTION DE SIGNAL DE MESSAGES DE RADIOMESSAGERIE**
[72] MA, XUAN, CN
[72] CHEN, MENGZHU, CN
[72] XU, JUN, CN
[72] PENG, FOCAI, CN
[71] ZTE CORPORATION, CN
[85] 2024-03-19
[86] 2021-11-05 (PCT/CN2021/129033)
[87] (WO2023/077438)

[21] **3,232,327**
[13] A1
[51] **Int.Cl. G01N 33/49 (2006.01) G01N 33/483 (2006.01) G01N 33/487 (2006.01)**
[25] EN
[54] **FLUIDIC TUBING ASSEMBLY FOR BLOOD ANALYZER**
[54] **ENSEMBLE TUBE FLUIDIQUE POUR ANALYSEUR DE SANG**
[72] PUDDUCK, CHRISTIAN, US
[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2024-03-19
[86] 2022-10-17 (PCT/US2022/078190)
[87] (WO2023/069886)
[30] US (63/270,206) 2021-10-21

[21] **3,232,328**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) C12M 1/12 (2006.01) C12M 1/34 (2006.01) G01N 15/00 (2024.01) G01N 15/06 (2024.01) G01N 21/00 (2006.01) G01N 33/543 (2006.01) G01N 33/569 (2006.01)**
[25] EN
[54] **PHAGE CHARACTERIZATION METHOD AND DEVICES**
[54] **PROCEDE ET DISPOSITIFS DE CARACTERISATION DE PHAGE**
[72] VERMEULEN, STEFAN, BE
[71] HOGESCHOOL GENT, BE
[85] 2024-03-19
[86] 2022-10-20 (PCT/EP2022/079181)
[87] (WO2023/067048)
[30] EP (21203671.9) 2021-10-20

[21] **3,232,329**
[13] A1
[51] **Int.Cl. C07D 413/14 (2006.01) A61K 31/4178 (2006.01) A61K 31/443 (2006.01) A61P 13/12 (2006.01)**
[25] EN
[54] **N-SUBSTITUTED FERROPORTIN INHIBITORS**
[54] **INHIBITEURS DE FERROPORTINE N-SUBSTITUES**
[72] BUHR, WILM, CH
[72] KALOGERAKIS, ARIS, CH
[72] UMLAND, KLAUS-DANIEL, CH
[72] REIM, STEFAN, CH
[72] MANOLOVA, VANIA, CH
[72] ALTERMATT, PATRICK, CH
[72] FLACE, ANNA, CH
[71] VIFOR (INTERNATIONAL) AG, CH
[85] 2024-03-19
[86] 2022-09-20 (PCT/EP2022/076058)
[87] (WO2023/046664)
[30] EP (21198037.0) 2021-09-21

[21] **3,232,331**
[13] A1
[51] **Int.Cl. G01N 35/00 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **HANDS-FREE SAMPLE INSERTION APPARATUS AND METHODS**
[54] **APPAREIL ET PROCEDES D'INSERTION D'ECHANTILLON A MAINS LIBRES**
[72] GALANO, KENNETH, US
[71] SIEMENS HEALTHCARE DIAGNOSTICS INC., US
[85] 2024-03-19
[86] 2022-10-17 (PCT/US2022/078188)
[87] (WO2023/069885)
[30] US (63/257,371) 2021-10-19

[21] **3,232,333**
[13] A1
[51] **Int.Cl. F24C 15/08 (2006.01)**
[25] EN
[54] **INSTALLATION SYSTEM FOR COOKING APPLIANCE AND METHOD FOR INSTALLING COOKING APPLIANCE**
[54] **SYSTEME D'INSTALLATION POUR APPAREIL DE CUISSON ET PROCEDE D'INSTALLATION D'APPAREIL DE CUISSON**
[72] HU, JIAN'AN, CN
[72] HUANG, BIN, US
[72] LI, XIN, US
[72] LIU, YU, US
[72] ZHU, XIANGZHOU, US
[71] WHIRLPOOL CORPORATION, US
[85] 2024-03-19
[86] 2021-09-23 (PCT/CN2021/119977)
[87] (WO2023/044674)

[21] **3,232,334**
[13] A1
[51] **Int.Cl. F16L 1/11 (2006.01) G01V 3/08 (2006.01) G01V 3/15 (2006.01) G01V 3/165 (2006.01)**
[25] EN
[54] **A SYSTEM AND METHOD OF TRACKING AN OBJECT THAT IS AT LEAST PARTLY BURIED IN SEABED**
[54] **SYSTEME ET PROCEDE DE SUIVI D'UN OBJET AU MOINS PARTIELLEMENT ENFOUI DANS LE FOND OCEANIQUE**
[72] MATTSSON, JOHAN, SE
[72] REKDAL, THORBJORN, NO
[71] ARGEO ROBOTICS AS, NO
[85] 2024-03-19
[86] 2022-10-14 (PCT/NO2022/050229)
[87] (WO2023/063832)
[30] NO (20211242) 2021-10-14

[21] **3,232,335**
[13] A1
[51] **Int.Cl. B60C 15/00 (2006.01) B60C 15/04 (2006.01) B60C 15/06 (2006.01)**
[25] FR
[54] **TYRE WITH IMPROVED ROLLING RESISTANCE PERFORMANCE**
[54] **PNEUMATIQUE PRESENTANT DES PERFORMANCES EN TERMES DE RESISTANCE AU ROULEMENT AMELIOREES**
[72] BESTGEN, LUC, FR
[72] THIEL, BAPTISTE, FR
[72] COSTE, NATHALIE, FR
[72] CROCHET, AURORE, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-03-19
[86] 2022-11-24 (PCT/EP2022/083156)
[87] (WO2023/094537)
[30] FR (FR2112511) 2021-11-25

[21] **3,232,336**
[13] A1
[51] **Int.Cl. C10L 1/18 (2006.01) C10L 1/23 (2006.01) C10L 10/04 (2006.01)**
[25] EN
[54] **USE OF ORGANIC NITRATE AND/OR PEROXIDE ADDITIVES AND METHOD BASED THEREON FOR DEPOSIT REDUCTION IN POST DIESEL-COMBUSTION SYSTEMS**
[54] **UTILISATION D'ADDITIFS A BASE DE NITRATE ORGANIQUE ET/OU DE PEROXYDE ET PROCEDE A BASE DE CETTE UTILISATION POUR LA REDUCTION DES DEPOTS DANS DES SYSTEMES DE POST-COMBUSTION DIESEL**
[72] BOON, PHILIP JOHN, GB
[71] INNOSPEC LIMITED, GB
[85] 2024-03-19
[86] 2022-09-23 (PCT/GB2022/052424)
[87] (WO2023/047134)
[30] GB (2113683.3) 2021-09-24

[21] **3,232,337**
[13] A1
[51] **Int.Cl. B60L 13/04 (2006.01) B61B 13/08 (2006.01) F16L 9/18 (2006.01)**
[25] EN
[54] **VACUUM TRANSPORTATION SYSTEM**
[54] **SYSTEME DE TRANSPORT SOUS VIDE**
[72] CHAKRAVARTHY, SATYANARAYANAN RAGHURAMAN, IN
[72] MURUGANANDAM, THIRUCHENGODE MAHALINGAM, IN
[72] JAIN, VIBHOR, IN
[72] SASISEKARAN, RAJARAMAN, IN
[72] PATIL, ANURAG, IN
[72] JAYANT, DHALPE ABHISHEK, IN
[72] RISHITHA, VEMIREDDY SRI, IN
[72] THAKKAR, KISHAN, IN
[72] BALAR, NEEL, IN
[72] PATOLE, SIDDHANT SAGAR, IN
[72] KABDAL, LOKESH, IN
[72] ANISH, CHOKKASAMUDRAM, IN
[72] BANSAL, ANKIT, IN
[71] INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT MADRAS), IN
[85] 2024-03-19
[86] 2022-09-16 (PCT/IN2022/050829)
[87] (WO2023/042223)
[30] IN (202141042501) 2021-09-20

[21] **3,232,338**
[13] A1
[51] **Int.Cl. A24F 40/42 (2020.01) A24F 40/46 (2020.01) A24F 40/53 (2020.01)**
[25] EN
[54] **CAPSULE VALIDATION FOR HEAT-NOT-BURN (HNB) AEROSOL-GENERATING DEVICES**
[54] **VALIDATION DE CAPSULE POUR DISPOSITIFS DE GENERATION D'AEROSOL A CHAUFFAGE SANS COMBUSTION (HNB)**
[72] HAWES, ERIC, US
[72] BLACKMON, ZACK W., US
[72] KEEN, JARRETT, US
[72] SUNDAR, RANGARAJ S., US
[72] LAU, RAYMOND W., US
[72] GALLAGHER, NIALL, US
[71] ALTRIA CLIENT SERVICES LLC, US
[85] 2024-03-19
[86] 2022-09-02 (PCT/US2022/042474)
[87] (WO2023/043631)
[30] US (17/479,274) 2021-09-20

[21] **3,232,339**
[13] A1
[51] **Int.Cl. C09B 11/28 (2006.01) C12Q 1/6806 (2018.01) C12Q 1/6869 (2018.01) C07H 21/04 (2006.01) C09B 62/00 (2006.01)**
[25] EN
[54] **COMPOSITIONS, SYSTEMS, AND METHODS FOR DATA STORAGE USING NUCLEIC ACIDS AND POLYMERASES**
[54] **COMPOSITIONS, SYSTEMES ET PROCEDES DE STOCKAGE DE DONNEES A L?AIDE D?ACIDES NUCLEIQUES ET DE POLYMERASES**
[72] KOOL, ERIC, US
[71] NAIO, INC., US
[85] 2024-03-19
[86] 2022-09-23 (PCT/US2022/076976)
[87] (WO2023/049869)
[30] US (63/248,407) 2021-09-24

[21] **3,232,340**
[13] A1
[51] **Int.Cl. B60C 15/00 (2006.01) B60C 15/04 (2006.01) B60C 15/06 (2006.01)**
[25] FR
[54] **TYRE WITH IMPROVED ROLLING RESISTANCE PERFORMANCE**
[54] **PNEUMATIQUE PRESENTANT DES PERFORMANCES EN TERMES DE RESISTANCE AU ROULEMENT AMELIOREES**
[72] BESTGEN, LUC, FR
[72] THIEL, BAPTISTE, FR
[72] CROCHET, AURORE, FR
[71] COMPAGNIE GENERALE DES ETABLISSEMENTS MICHELIN, FR
[85] 2024-03-19
[86] 2022-11-24 (PCT/EP2022/083161)
[87] (WO2023/094541)
[30] FR (FR2112517) 2021-11-25

[21] **3,232,341**
[13] A1
[51] **Int.Cl. C07D 213/16 (2006.01) A61P 25/14 (2006.01) A61P 25/16 (2006.01) C07D 403/04 (2006.01) C07D 413/04 (2006.01)**
[25] EN
[54] **SARM1 MODULATORS, PREPARATIONS, AND USES THEREOF**
[54] **MODULATEURS DE SARM1, PREPARATIONS ET UTILISATIONS DE CEUX-CI**
[72] ZHANG, ZHAOLAN, CN
[72] ZHANG, ZHIYUAN, CN
[72] SUN, WEIDONG, CN
[72] XU, YANPING, CN
[72] JIANG, YIMIN, CN
[72] LIU, LIANZHU, CN
[71] SIRONAX LTD., KY
[85] 2024-03-19
[86] 2022-10-25 (PCT/CN2022/127233)
[87] (WO2023/072026)
[30] CN (PCT/CN2021/125941) 2021-10-25

[21] **3,232,342**
[13] A1
[51] **Int.Cl. A24F 40/50 (2020.01) A24F 40/53 (2020.01)**
[25] EN
[54] **HEAT-NOT-BURN (HNB) AEROSOL-GENERATING DEVICES WITH CAPSULE AUTHENTICATION**
[54] **DISPOSITIFS DE GENERATION D'AEROSOL DE CHAUFFAGE SANS COMBUSTION (HNB) AVEC AUTHENTIFICATION DE CAPSULE**
[72] BLACKMON, ZACK W., US
[72] HAWES, ERIC, US
[72] KEEN, JARRETT, US
[72] SUNDAR, RANGARAJ S., US
[72] LAU, RAYMOND W., US
[72] GALLAGHER, NIALL, US
[71] ALTRIA CLIENT SERVICES LLC, US
[85] 2024-03-19
[86] 2022-09-02 (PCT/US2022/042476)
[87] (WO2023/043633)
[30] US (17/479,260) 2021-09-20

[21] **3,232,343**
[13] A1
[51] **Int.Cl. F02K 7/20 (2006.01) F02K 7/04 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR RAM AIR INTAKE FOR PULSE COMBUSTORS**
[54] **SYSTEME ET PROCEDE D'ADMISSION D'AIR DYNAMIQUE POUR CHAMBRES DE COMBUSTION PULSATOIRE**
[72] MAQBOOL, DAANISH, US
[71] NORTH AMERICAN WAVE ENGINE CORPORATION, US
[85] 2024-03-19
[86] 2022-10-28 (PCT/US2022/078866)
[87] (WO2023/077064)
[30] US (63/273,035) 2021-10-28

[21] **3,232,344**
[13] A1
[51] **Int.Cl. C04B 40/06 (2006.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01)**
[25] EN
[54] **DRY CEMENTITIOUS MATERIAL MIXTURE FOR 3D-PRINTING**
[54] **MELANGE DE MATERIAU CIMENTAIRE SEC POUR IMPRESSION 3D**
[72] LABYAD, ABDELAZIZ, FR
[72] DUCHAND, SYLVAIN, FR
[72] BLACHIER, CHRISTIAN, FR
[72] REGNAULT DE LA MOTHE, LOIC, FR
[72] LOMBOIS-BURGER, HELENE, FR
[71] HOLCIM TECHNOLOGY LTD, CH
[85] 2024-03-19
[86] 2022-09-21 (PCT/IB2022/058911)
[87] (WO2023/047293)
[30] EP (21020471.5) 2021-09-21

[21] **3,232,345**
[13] A1
[51] **Int.Cl. G01C 21/34 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS TO SHARE A RIDE IN A VEHICLE**
[54] **SYSTEMES ET PROCEDES POUR PARTAGER UN VOYAGE DANS UN VEHICULE**
[72] ZOLFAGHARI, EIMAN, US
[71] BALA TECHNOLOGIES LLC, US
[85] 2024-03-19
[86] 2022-10-06 (PCT/US2022/045911)
[87] (WO2023/059807)
[30] US (63/252,907) 2021-10-06

[21] **3,232,347**
[13] A1
[51] **Int.Cl. C04B 40/06 (2006.01) B33Y 70/00 (2020.01) B33Y 80/00 (2015.01)**
[25] EN
[54] **DRY CEMENTITIOUS MATERIAL MIXTURE FOR 3D-PRINTING**
[54] **MELANGE DE MATERIAU CIMENTAIRE SEC POUR IMPRESSION 3D**
[72] CARRION, BENITO, FR
[72] BLACHIER, CHRISTIAN, FR
[72] LOMBOIS-BURGER, HELENE, FR
[72] DUCHAND, SYLVAIN, FR
[71] HOLCIM TECHNOLOGY LTD., CH
[85] 2024-03-19
[86] 2022-09-21 (PCT/IB2022/058916)
[87] (WO2023/047296)
[30] EP (21020470.7) 2021-09-21

[21] **3,232,348**
[13] A1
[51] **Int.Cl. A61K 9/127 (2006.01) A61K 31/522 (2006.01) A61P 9/00 (2006.01)**
[25] EN
[54] **URIC ACID LIPOSOMES**
[54] **LIPOSOMES D'ACIDE URIQUE**
[72] CHAMORRO SANCHEZ, ANGEL, ES
[72] PLANAS OBRADORS, ANA MARIA, ES
[72] RAMOS CABRER, PEDRO, ES
[71] HOSPITAL CLINIC DE BARCELONA, ES
[71] FUNDACIO DE RECERCA CLINIC BARCELONA-INSTITUT D'INVESTIGACIONS BIOMEDIQUES AUGUST PI I SUNYER, ES
[71] AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS, M.P., ES
[85] 2024-03-19
[86] 2022-10-25 (PCT/EP2022/079717)
[87] (WO2023/072903)
[30] EP (21382979.9) 2021-10-29

[21] **3,232,350**
[13] A1
[51] **Int.Cl. B27K 3/02 (2006.01) B27K 5/00 (2006.01) F26B 25/22 (2006.01)**
[25] EN
[54] **MODIFICATION ARRANGEMENT FOR HYGROSCOPIC MATERIAL**
[54] **SYSTEME DE MODIFICATION POUR MATERIAU HYGROSCOPIQUE**
[72] RITVANEN, PEKKA, FI
[72] LEHTINEN, JYRKI, FI
[72] PASANEN, TIMO, FI
[72] SAYNEVIRTA, KARI, FI
[72] TERVO, KARI, FI
[71] AVANT WOOD OY, FI
[85] 2024-03-19
[86] 2022-02-09 (PCT/FI2022/000002)
[87] (WO2022/171927)
[30] FI (20217032) 2021-02-15

[21] **3,232,352**
[13] A1
[51] **Int.Cl. B65G 47/66 (2006.01) B65G 13/00 (2006.01) B65G 13/11 (2006.01) B65G 39/02 (2006.01)**
[25] EN
[54] **ROLLER CONVEYOR GAP BLOCKER**
[54] **BLOQUEUR D?ESPACE DE TRANSPORTEUR A ROULEAUX**
[72] PETTINGA, MARK STEVEN, US
[71] FLEXIBLE STEEL LACING COMPANY, US
[85] 2024-03-19
[86] 2022-09-23 (PCT/US2022/044568)
[87] (WO2023/049370)
[30] US (63/248,196) 2021-09-24
[30] US (63/257,789) 2021-10-20

[21] **3,232,353**
[13] A1
[51] **Int.Cl. H02K 1/18 (2006.01) H02K 5/16 (2006.01)**
[25] EN
[54] **ELECTRIC MACHINE WITH ONE HOUSING**
[54] **MACHINE ELECTRIQUE POURVUE D'UN BOITIER**
[72] CEPEK, THOMAS, DE
[71] INNOMOTICS GMBH, DE
[85] 2024-03-19
[86] 2022-09-30 (PCT/EP2022/077335)
[87] (WO2023/052614)
[30] EP (21200238.0) 2021-09-30

[21] **3,232,354**
[13] A1
[51] **Int.Cl. A61F 5/41 (2006.01)**
[25] EN
[54] **RESTORATIVE APPARATUS WITH METHOD FOR MALE TISSUE GROWTH**
[54] **APPAREIL DE RESTAURATION AVEC PROCEDE DE CROISSANCE DE TISSU MALE**
[72] LEWIS, JEFFREY, US
[71] LEWIS, JEFFREY, US
[85] 2024-03-19
[86] 2022-10-13 (PCT/US2022/046629)
[87] (WO2023/091257)
[30] US (17/529,221) 2021-11-17

[21] **3,232,355**
[13] A1
[51] **Int.Cl. E01D 19/02 (2006.01)**
[25] EN
[54] **FLEXIBLE BRIDGE ABUTMENT**
[54] **CULEE DE PONT SOUPLE**
[72] PRETIOUS, MITCHELL, GB
[72] O'ROURKE, SEAN RONAN, GB
[72] ARMITAGE, JOHN, GB
[72] ROBINSON, PHILIP, GB
[71] LAING O'ROURKE PLC, GB
[85] 2024-03-19
[86] 2022-09-16 (PCT/EP2022/075857)
[87] (WO2023/041750)
[30] GB (2113362.4) 2021-09-20

[21] **3,232,356**
[13] A1
[51] **Int.Cl. C01B 21/086 (2006.01) C01B 21/093 (2006.01)**
[25] EN
[54] **COMPOSITION COMPRISING AN ALKALI METAL SALT OF BIS(FLUORO SULFONYL)IMIDE**
[54] **COMPOSITION COMPRENANT UN SEL DE METAL ALCALIN DE BIS(FLUOROSULFONYL)IMIDE**
[72] SCHMITT, ETIENNE, FR
[72] ROQUES, NICOLAS, FR
[72] BATT, FREDERIC, FR
[72] DERRIEN, ELIE, FR
[71] SPECIALTY OPERATIONS FRANCE, FR
[85] 2024-03-19
[86] 2023-11-09 (PCT/EP2023/081357)
[87] (WO2023/247806)
[30] EP (22209476.5) 2022-11-24

[21] **3,232,357**
[13] A1
[51] **Int.Cl. A61K 39/395 (2006.01) C12N 5/078 (2010.01) C07K 14/705 (2006.01) C07K 16/24 (2006.01) C07K 16/46 (2006.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDES, ANTIGEN BINDING POLYPEPTIDE COMPLEXES AND METHODS OF USE THEREOF**
[54] **POLYPEPTIDES DE LIAISON A L'ANTIGENE, COMPLEXES POLYPEPTIDIQUES SE LIANT A L'ANTIGENE ET LEURS PROCEDES D'UTILISATION**
[72] GRECI, MARK, US
[72] CHEN, HAO, US
[72] WU, LAN, US
[72] WEI, RONNIE RONG, US
[72] XU, LING, US
[72] YANG, ZHI-YONG, US
[72] SEUNG, EDWARD, US
[72] NABEL, GARY J., US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-28 (PCT/US2022/077201)
[87] (WO2023/056313)
[30] US (63/249,722) 2021-09-29
[30] US (63/249,794) 2021-09-29
[30] US (63/249,833) 2021-09-29
[30] US (63/249,919) 2021-09-29
[30] US (63/291,305) 2021-12-17
[30] US (63/292,382) 2021-12-21

[21] **3,232,358**
[13] A1
[51] **Int.Cl. E05D 15/06 (2006.01) E05F 15/635 (2015.01) E06B 3/46 (2006.01)**
[25] EN
[54] **IMPROVED SLIDING DOOR**
[54] **PORTE COULISSANTE AMELIOREE**
[72] SPILLER, CHRISTOPHER MATTHEW, NZ
[72] KENNY, PHILIP RICHARD, NZ
[71] CAVITY SLIDERS LIMITED, NZ
[85] 2024-03-19
[86] 2022-09-29 (PCT/IB2022/059267)
[87] (WO2023/053045)
[30] NZ (780768) 2021-09-30

[21] **3,232,359**
[13] A1
[51] **Int.Cl. B65D 81/34 (2006.01) B65D 75/00 (2006.01) B65D 77/00 (2006.01) B65D 77/08 (2006.01) B65D 81/32 (2006.01) B65D 83/72 (2006.01) B65D 83/74 (2006.01) B65D 85/00 (2006.01)**
[25] EN
[54] **SELF-HEATING PRODUCT CONTAINER AND/OR ASSOCIATED WAXING KIT**
[54] **CONTENANT DE PRODUIT AUTO-CHAUFFANT ET/OU KIT D'EPILATION A LA CIRE ASSOCIE**
[72] GUARINO, BARNEY J., US
[72] GANDHAM, NARESH, US
[71] TEMPRA TECHNOLOGY, INC., US
[85] 2024-03-19
[86] 2022-09-21 (PCT/US2022/076813)
[87] (WO2023/049771)
[30] US (63/246,841) 2021-09-22

[21] **3,232,360**
[13] A1
[51] **Int.Cl. C11D 3/20 (2006.01) C11D 1/94 (2006.01) C11D 17/00 (2006.01)**
[25] EN
[54] **CLEANSING COMPOSITION**
[54] **COMPOSITION DE NETTOYAGE**
[72] ASTOLFI, RAFAEL, NL
[72] LEOPOLDINO, SERGIO ROBERTO, NL
[72] YAROVOY, YURIY KONSTANTINOVICH, NL
[71] UNILEVER GLOBAL IP LIMITED, GB
[85] 2024-03-19
[86] 2022-09-13 (PCT/EP2022/075443)
[87] (WO2023/052124)
[30] EP (21199326.6) 2021-09-28

[21] **3,232,361**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **PROSTHETIC TRANSCATHETER HEART VALVE (THV) SYSTEM**
[54] **SYSTEME DE VALVE CARDIAQUE TRANSCATHETER (THV) PROTHETIQUE**
[72] BHATT, SANJEEV NAUTTAM, IN
[72] PARMAR, HARSHAD AMRUTLAL, IN
[71] MERIL LIFE SCIENCES PVT LTD, IN
[85] 2024-03-19
[86] 2022-05-19 (PCT/IN2022/050475)
[87] (WO2023/067614)
[30] IN (202121047196) 2021-10-18

[21] **3,232,362**
[13] A1
[51] **Int.Cl. A61C 13/00 (2006.01) B33Y 80/00 (2015.01) A61C 9/00 (2006.01)**
[25] EN
[54] **DEVICE FOR THE RESIN PRESSING AND FINALIZATION OF FULLY OR PARTIALLY REMOVABLE DENTAL PROSTHESES, AND METHOD FOR PROVIDING IT**
[54] **DISPOSITIF POUR LE PRESSAGE ET LA FINALISATION DE RESINE DE PROTHESES DENTAIRES ENTIEREMENT OU PARTIELLEMENT AMOVIBLES, ET SON PROCEDE DE FABRICATION**
[72] MOLINELLI, FABRIZIO, IT
[71] DENTAL MANUFACTURING S.P.A., IT
[85] 2024-03-19
[86] 2022-08-23 (PCT/EP2022/073388)
[87] (WO2023/072454)
[30] IT (102021000027419) 2021-10-26

[21] **3,232,363**
[13] A1
[51] **Int.Cl. G06Q 10/02 (2012.01) G06Q 10/04 (2023.01) G06Q 30/02 (2023.01)**
[25] EN
[54] **MACHINE LEARNING METHOD TO DETERMINE THE QUALITY AND/OR VALUE OF ANY SEAT IN AN EVENT VENUE**
[54] **PROCEDE D'APPRENTISSAGE MACHINE POUR DETERMINER LA QUALITE ET/OU LA VALEUR DE N'IMPORTE QUEL SIEGE DANS UN LIEU D'EVENEMENT**
[72] REED, COREY JAMES, US
[72] SIERAG, DIRK DANIEL, US
[71] STUBHUB, INC., US
[85] 2024-03-19
[86] 2022-10-04 (PCT/US2022/045686)
[87] (WO2023/059647)
[30] US (17/494,766) 2021-10-05

[21] **3,232,365**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) A61K 35/17 (2015.01)**
[25] EN
[54] **ANTIGEN BINDING POLYPEPTIDES, ANTIGEN BINDING POLYPEPTIDE COMPLEXES AND METHODS OF USE THEREOF IN HIV**
[54] **POLYPEPTIDES DE LIAISON A L'ANTIGENE, COMPLEXES POLYPEPTIDIQUES DE LIAISON A L'ANTIGENE ET LEURS METHODES D'UTILISATION DANS LE VIH**
[72] WEI, RONNIE RONG, US
[72] XU, LING, US
[72] YANG, ZHI-YONG, US
[72] NABEL, GARY J., US
[71] MODEX THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-28 (PCT/US2022/077203)
[87] (WO2023/056315)
[30] US (63/249,722) 2021-09-29

[21] **3,232,366**
[13] A1
[51] **Int.Cl. A61F 2/24 (2006.01)**
[25] EN
[54] **COMMISSURAL ALIGNMENT SYSTEM AND METHOD OF ALIGNMENT THEREOF FOR PROSTHETIC VALVES**
[54] **SYSTEME D'ALIGNEMENT COMMISSURAL ET SON PROCEDE D'ALIGNEMENT POUR VALVULES PROTHETIQUES**
[72] BHATT, SANJEEV NAUTTAM, IN
[72] PARMAR, HARSHAD AMRUTLAL, IN
[71] MERIL LIFE SCIENCES PVT LTD, IN
[85] 2024-03-19
[86] 2022-05-20 (PCT/IN2022/050479)
[87] (WO2023/062645)
[30] IN (202121046556) 2021-10-12

[21] **3,232,367**
[13] A1
[51] **Int.Cl. C01G 53/00 (2006.01)**
[25] EN
[54] **METHOD FOR MAKING PRECURSORS OF CATHODE ACTIVE MATERIALS FOR LITHIUM ION BATTERIES**
[54] **METHODE DE FABRICATION DE PRECURSEURS DE MATERIAUX ACTIFS DE CATHODE POUR BATTERIES AU LITHIUM-ION**
[72] FRISCHHUT, SABINE, DE
[72] BEIERLING, THORSTEN, DE
[72] METZGER, LUKAS KARL, DE
[72] RAULS, MATTHIAS, DE
[72] DUCHARDT, MARC, DE
[71] BASF SE, DE
[85] 2024-03-19
[86] 2022-09-12 (PCT/EP2022/075233)
[87] (WO2023/046508)
[30] EP (21198053.7) 2021-09-21

[21] **3,232,368**
[13] A1
[51] **Int.Cl. H01M 12/08 (2006.01) H01M 12/02 (2006.01)**
[25] EN
[54] **METHOD FOR OPERATING A METAL-HYDROGEN BATTERY**
[54] **PROCEDE D'ACTIONNEMENT DE BATTERIE METAL-HYDROGENE**
[72] KENNEY, MICHAEL J., US
[72] ZHU, JINGYI, US
[72] ZU, GE, US
[72] WU, YINGYING, US
[72] KESHAVARZ, MAJID, US
[71] ENERVENUE INC., US
[85] 2024-03-19
[86] 2022-11-10 (PCT/US2022/079614)
[87] (WO2023/086869)
[30] US (63/278,046) 2021-11-10
[30] US (18/053,882) 2022-11-09

[21] **3,232,369**
[13] A1
[51] **Int.Cl. A61F 2/95 (2013.01) A61F 2/958 (2013.01)**
[25] EN
[54] **DEVICE AND METHOD OF RADIALLY COLLAPSING MEDICAL DEVICES**
[54] **DISPOSITIF ET METHODE DE PLIAGE RADIAL DE DISPOSITIFS MEDICAUX**
[72] PARMAR, HARSHAD AMRUTLAL, IN
[72] PATEL, CHIRAG VINODBHAI, IN
[71] MERIL LIFE SCIENCES PVT LTD, IN
[85] 2024-03-19
[86] 2022-06-28 (PCT/IN2022/050592)
[87] (WO2023/084532)
[30] IN (202121051873) 2021-11-12

[21] **3,232,370**
[13] A1
[51] **Int.Cl. E21B 47/18 (2012.01) E21B 7/06 (2006.01) E21B 17/10 (2006.01)**
[25] EN
[54] **DIRECTIONAL PULSE POWER DRILLING**
[54] **FORAGE MECANIQUE A IMPULSIONS DIRECTIONNELLES**
[72] FINKE, MICHAEL D., US
[72] WIECEK, BOGUSLAW, US
[72] GLEITMAN, DANIEL D., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-19
[86] 2022-11-09 (PCT/US2022/079580)
[87] (WO2023/086844)
[30] US (63/263,782) 2021-11-09
[30] US (17/982,627) 2022-11-08

[21] **3,232,371**
[13] A1
[51] **Int.Cl. F41H 3/00 (2006.01) G01N 23/04 (2018.01) G21F 1/00 (2006.01) G21K 1/10 (2006.01) H05K 9/00 (2006.01)**
[25] EN
[54] **SHIELDED APPARATUS**
[54] **APPAREIL DISSIMULE**
[72] HILL, OLIVER, GB
[71] MBDA UK LIMITED, GB
[85] 2024-03-19
[86] 2022-10-06 (PCT/GB2022/052536)
[87] (WO2023/057768)
[30] GB (2114336.7) 2021-10-07

[21] **3,232,372**
[13] A1
[51] **Int.Cl. A61F 5/56 (2006.01)**
[25] EN
[54] **OCCLUSION ORTHOSIS**
[54] **ORTHESE D'OCCLUSION**
[72] NOCKER-BAYER, HEIKE, DE
[71] SA LU THE - STIFTUNG FUR SANFTE LUNGENTHERAPIEN, DE
[85] 2024-03-19
[86] 2022-09-22 (PCT/EP2022/076403)
[87] (WO2023/046848)
[30] DE (10 2021 004 806.7) 2021-09-23

[21] **3,232,373**
[13] A1
[51] **Int.Cl. E21B 7/06 (2006.01) E21B 47/18 (2012.01)**
[25] EN
[54] **SELECTIVE ELECTRODE USAGE FOR DIRECTIONAL PULSE POWER DRILLING**
[54] **UTILISATION SELECTIVE D'ELECTRODES POUR FORAGE A ENERGIE PULSEE DIRECTIONNELLES**
[72] FINKE, MICHAEL D., US
[72] WIECEK, BOGUSLAW, US
[72] MOENY, WILLIAM M., US
[72] GLEITMAN, DANIEL D., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[71] SDG LLC, US
[85] 2024-03-19
[86] 2022-11-09 (PCT/US2022/079583)
[87] (WO2023/086846)
[30] US (63/263,782) 2021-11-09
[30] US (17/982,789) 2022-11-08

[21] **3,232,374**
[13] A1
[51] **Int.Cl. E21B 4/02 (2006.01) E21B 41/00 (2006.01) F03B 13/02 (2006.01)**
[25] EN
[54] **FLUID BASED INTERMITTENT POWERING OF DOWNHOLE OPERATIONS**
[54] **ALIMENTATION INTERMITTENTE A BASE DE FLUIDE D'OPERATIONS DE FOND DE TROU**
[72] FINKE, MICHAEL D., US
[72] WIECEK, BOGUSLAW, US
[72] PAI, NAGARAJA, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-19
[86] 2022-11-09 (PCT/US2022/079577)
[87] (WO2023/086841)
[30] US (63/263,782) 2021-11-09
[30] US (17/982,589) 2022-11-08

[21] **3,232,375**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01) G01N 1/00 (2006.01) G01N 35/10 (2006.01)**
[25] EN
[54] **DIGITAL MICROFLUIDICS (DMF) SYSTEM, INSTRUMENT, AND CARTRIDGE INCLUDING MULTI-SIDED DMF DISPENSING AND METHOD**
[54] **SYSTEME MICROFLUIDIQUE NUMERIQUE (DMF), INSTRUMENT ET CARTOUCHE COMPRENANT UNE DISTRIBUTION DE DMF A FACES MULTIPLES ET PROCEDE**
[72] SAMARASEKERA, CHAMPIKA, CA
[72] NARAHARI, TANYA, CA
[71] NICOYA LIFESCIENCES INC., CA
[85] 2024-03-19
[86] 2022-09-19 (PCT/CA2022/051383)
[87] (WO2023/039678)
[30] US (63/246,121) 2021-09-20

[21] **3,232,376**
[13] A1
[51] **Int.Cl. A01K 67/027 (2024.01) C12N 15/877 (2010.01) C07K 14/705 (2006.01) C07K 14/745 (2006.01) C12N 15/85 (2006.01) C12N 15/90 (2006.01)**
[25] EN
[54] **MULTITRANSGENIC PIGS COMPRISING TEN GENETIC MODIFICATIONS FOR XENOTRANSPLANTATION**
[54] **PORCS SCENIQUES MULTITRAN COMPRENANT DIX MODIFICATIONS GENETIQUES POUR UNE XENOGREFFE**
[72] KOKKINAKI, MARIA, US
[72] KURAVI, KASINATH V., US
[71] REVIVICOR INC., US
[85] 2024-03-19
[86] 2022-09-19 (PCT/US2022/043967)
[87] (WO2023/044100)
[30] US (63/261,393) 2021-09-20

[21] **3,232,377**
[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01) A61K 9/46 (2006.01)**
[25] EN
[54] **METHOD FOR PREPARATION OF EFFERVESCENT GRANULES**
[54] **PROCEDE DE PREPARATION DE GRANULES EFFERVESCENTS**
[72] WEISS, GERD, DE
[72] HOBART, HANS, DE
[72] SCHIEMENZ, WOLFGANG, DE
[71] HERMES PHARMA GMBH, DE
[85] 2024-03-19
[86] 2022-10-18 (PCT/EP2022/078921)
[87] (WO2023/066904)
[30] EP (21203232.0) 2021-10-18

[21] **3,232,378**
[13] A1
[51] **Int.Cl. A61K 9/00 (2006.01) A61K 31/327 (2006.01) A61K 36/06 (2006.01) C12N 9/00 (2006.01)**
[25] EN
[54] **ENTERIC AEROBIZATION THERAPY**
[54] **THERAPIE D'AEROBISATION ENTERIQUE**
[72] SUTTON, LARRY D., US
[71] LPOXY THERAPEUTICS, INC., US
[85] 2024-03-19
[86] 2022-09-27 (PCT/US2022/077091)
[87] (WO2023/056256)
[30] US (63/261,828) 2021-09-29

[21] **3,232,379**
[13] A1
[51] **Int.Cl. A61B 34/20 (2016.01) A61B 17/00 (2006.01) A61B 34/10 (2016.01) A61B 90/00 (2016.01)**
[25] EN
[54] **INTEGRATED SURGICAL NAVIGATION AND VISUALIZATION SYSTEM, AND METHODS THEREOF**
[54] **SYSTEME INTEGRE DE NAVIGATION ET DE VISUALISATION CHIRURGICALES, ET METHODES ASSOCIEES**
[72] MINNE, STEPHEN, US
[72] POLCHIN, GEORGE C., US
[72] RAAB, SIMON, US
[72] FRIDMAN LANDEROS, ALAN, US
[72] HANNOTTE, NORMAN, US
[72] LARKIN, MICHAEL, US
[72] KANUSKY, THOMAS, US
[72] KOTIAN, SAURABH, US
[71] DIGITAL SURGERY SYSTEMS, INC., US
[85] 2024-03-13
[86] 2022-09-13 (PCT/US2022/076349)
[87] (WO2023/039596)
[30] US (63/243,659) 2021-09-13

[21] **3,232,380**
[13] A1
[51] **Int.Cl. H02M 7/00 (2006.01) H01L 23/427 (2006.01) H05K 7/20 (2006.01) H01L 23/495 (2006.01)**
[25] EN
[54] **COMPACT POWER CONVERTER**
[54] **CONVERTISSEUR DE PUISSANCE COMPACT**
[72] BYERS, IAN, US
[72] MILLER, GARY, US
[72] WOOTERS, STUART, US
[72] HAREL, JEAN-CLAUDE, US
[71] MAREL POWER SOLUTIONS, INC., US
[85] 2024-03-13
[86] 2022-09-15 (PCT/US2022/076487)
[87] (WO2023/044384)
[30] US (63/244,282) 2021-09-15
[30] US (63/291,091) 2021-12-17
[30] US (63/291,778) 2021-12-20
[30] US (63/312,580) 2022-02-02

[21] **3,232,381**
[13] A1
[51] **Int.Cl. A23D 9/007 (2006.01) A23L 33/12 (2016.01) A23L 33/175 (2016.01) A61P 3/10 (2006.01) C11C 3/08 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MODULATING GLYCEMIC RESPONSE**
[54] **COMPOSITIONS ET METHODES DE MODULATION DE LA REPONSE GLYCEMIQUE**
[72] MILLER, ERIC C., US
[71] SOQUEL CO-PHARMA, LLC, US
[85] 2024-03-13
[86] 2022-09-16 (PCT/US2022/076582)
[87] (WO2023/044435)
[30] US (63/245,682) 2021-09-17

[21] **3,232,382**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61P 13/12 (2006.01) A61P 35/00 (2006.01) C07K 16/22 (2006.01)**
[25] EN
[54] **ANTI- TGF.BETA.1,2,3 ANTIBODIES AND THERAPEUTIC USES THEREOF**
[54] **ANTICORPS ANTI-TGF.BETA.1,2,3 ET UTILISATIONS THERAPEUTIQUES ASSOCIEES**
[72] BERGERON, LISA MARIE, US
[72] CAMPOS, HENRY LUIS, US
[71] ZOETIS SERVICES LLC, US
[85] 2024-03-13
[86] 2022-09-27 (PCT/US2022/077053)
[87] (WO2023/049917)
[30] US (63/248,679) 2021-09-27

[21] **3,232,383**
[13] A1
[51] **Int.Cl. C12Q 1/6823 (2018.01)**
[25] EN
[54] **TEMPERATURE-SELECTABLE FRET CASSETTE SIGNALING**
[54] **SIGNALISATION DE CASSETTES FRET SELECTIONNABLES EN FONCTION DE LA TEMPERATURE**
[72] GILLY, MICHAEL J., US
[72] SHAH, ANKUR H., US
[72] GILDER, ANDREW S., US
[71] GEN-PROBE INCORPORATED, US
[85] 2024-03-13
[86] 2022-09-29 (PCT/US2022/077243)
[87] (WO2023/056345)
[30] US (63/250,894) 2021-09-30

[21] **3,232,384**
[13] A1
[51] **Int.Cl. F16K 5/06 (2006.01) F03G 1/02 (2006.01) F16F 1/14 (2006.01) F16F 3/04 (2006.01) F16K 31/56 (2006.01) F16K 31/60 (2006.01) F16K 35/02 (2006.01)**
[25] EN
[54] **BALL VALVE HANDLE, SPRING LOADED**
[54] **POIGNEE DE SOUPAPE A BILLE, A RESSORT**
[72] ADAMS, RICHARD J., US
[72] SALMELA, GORDON O., US
[71] RAYTHEON COMPANY, US
[85] 2024-03-14
[86] 2022-08-18 (PCT/US2022/075114)
[87] (WO2023/086689)
[30] US (17/454,131) 2021-11-09

[21] **3,232,385**
[13] A1
[51] **Int.Cl. G06F 21/44 (2013.01) G06F 21/60 (2013.01) G06F 21/72 (2013.01) G06F 21/78 (2013.01) G16H 20/17 (2018.01) H04L 9/40 (2022.01) H04L 67/12 (2022.01) H04L 9/32 (2006.01)**
[25] EN
[54] **MEDICAL DEVICE COMMUNICATION CERTIFICATE MANAGEMENT**
[54] **GESTION DE CERTIFICAT DE COMMUNICATION DE DISPOSITIF MEDICAL**
[72] ROHLWING, MARK C., US
[72] VIVEK, S. SREE, US
[72] DANDEKAR, HRISHIKESH ANIL, US
[72] SRINIVASAN, DHARANI KUMAR, US
[72] K.R., RAHUL, US
[72] BORA, VASILE, US
[72] JADAUN, SATYENDRA SINGH, US
[71] ICU MEDICAL, INC., US
[85] 2024-03-14
[86] 2022-09-14 (PCT/US2022/076417)
[87] (WO2023/044335)

[21] **3,232,386**
[13] A1
[51] **Int.Cl. C07D 207/18 (2006.01) A61K 9/00 (2006.01) A61K 31/4409 (2006.01) A61K 31/4427 (2006.01) C07D 211/34 (2006.01) C07D 401/06 (2006.01)**
[25] EN
[54] **CYCLIC LIPIDS AND METHODS OF USE THEREOF**
[54] **LIPIDES CYCLIQUES ET LEURS PROCEDES D'UTILISATION**
[72] JAYARAMAN, MUTHUSAMY, US
[72] SCULLY, STEPHEN, US
[71] RENAGADE THERAPEUTICS MANAGEMENT INC., US
[85] 2024-03-12
[86] 2022-09-14 (PCT/US2022/076415)
[87] (WO2023/044333)
[30] US (63/244,146) 2021-09-14
[30] US (63/293,286) 2021-12-23
[30] US (63/336,008) 2022-04-28

[21] **3,232,387**
[13] A1
[51] **Int.Cl. A61K 47/54 (2017.01) A61P 35/00 (2006.01) A61P 37/00 (2006.01)**
[25] EN
[54] **GLYCAN CONJUGATE COMPOSITIONS AND METHODS**
[54] **COMPOSITIONS DE CONJUGUE DE GLYCANE ET METHODES ASSOCIEES**
[72] BISARIA, NAMITA, US
[72] FLYNN, RYAN ALEXANDER, US
[72] GOODMAN, BRIAN, US
[72] LAWLOR, CIARAN, US
[71] GANNA BIO, INC., US
[71] THE CHILDREN'S MEDICAL CENTER CORPORATION, US
[85] 2024-03-13
[86] 2022-09-13 (PCT/US2022/076342)
[87] (WO2023/039594)
[30] US (63/243,457) 2021-09-13

[21] **3,232,388**
[13] A1
[51] **Int.Cl. B65D 5/42 (2006.01) B65D 5/02 (2006.01)**
[25] EN
[54] **CONSUMER PRODUCT PACKAGE**
[54] **EMBALLAGE DE PRODUITS DE CONSOMMATION**
[72] GREENE, JEFFREY ALLEN, US
[72] HELLE, MATTHEW JAMES, US
[72] BARROZO, ANGEL NAFARRETE, US
[72] GAUVIN, ANDREW MARTIN JOSEPH, US
[71] THE GILLETTE COMPANY LLC, US
[85] 2024-03-13
[86] 2022-10-19 (PCT/US2022/078340)
[87] (WO2023/069975)
[30] US (17/508,391) 2021-10-22

[21] **3,232,390**
[13] A1
[51] **Int.Cl. A61K 8/34 (2006.01) A61K 8/365 (2006.01) A61K 8/44 (2006.01) A61K 8/67 (2006.01) A61K 8/81 (2006.01) A61Q 19/00 (2006.01)**
[25] EN
[54] **METHOD FOR TREATING POST-ACNE MARKS**
[54] **PROCEDE DE TRAITEMENT DE MARQUES POST-ACNEIQUES**
[72] EHRMAN, MATTHEW CLAIR, SG
[72] DISSANAYAKE, DISSANAYAKE MUDIYANSELAGE MAHATHMA BANDARA, US
[72] ZUKOWSKI, JOSEPH MICHAEL, US
[72] CHUNG, WAN TING, SG
[72] CHEW, ZHI YAN, US
[72] GUPTA, SHIKHAR, SG
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-13
[86] 2022-11-29 (PCT/US2022/080559)
[87] (WO2023/097326)
[30] US (63/283,737) 2021-11-29

[21] **3,232,391**
[13] A1
[51] **Int.Cl. B41J 2/175 (2006.01)**
[25] EN
[54] **SUBSTRATE, LIQUID ACCOMMODATION CONTAINER, PRINTING SYSTEM, AND USE OF SUBSTRATE OR LIQUID ACCOMMODATION CONTAINER**
[54] **SUBSTRAT, RECIPIENT DE RECEPTION DE LIQUIDE, SYSTEME D'IMPRESSION ET UTILISATION D'UN SUBSTRAT OU D'UN RECIPIENT DE RECEPTION DE LIQUIDE**
[72] NAKANO, SHUICHI, JP
[72] KOSUGI, YASUHIKO, JP
[72] SATO, JUN, JP
[71] SEIKO EPSON CORPORATION, JP
[85] 2024-03-04
[86] 2022-04-14 (PCT/JP2022/017777)
[87] (WO2023/127175)
[30] JP (2021-214129) 2021-12-28
[30] JP (2021-214139) 2021-12-28

[21] **3,232,392**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01) B01L 7/00 (2006.01) G01N 33/53 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR DETECTING NUCLEIC ACIDS IN BIOLOGICAL SAMPLES**
[54] **DISPOSITIF ET PROCEDE POUR DETECTER DES ACIDES NUCLEIQUES DANS DES ECHANTILLONS BIOLOGIQUES**
[72] ALCORN, TIMOTHY, US
[72] ALTAVELA, ROBERT, US
[72] CARLOTTA, MICHAEL, US
[72] CIGNA, DAVID, US
[72] DETTER, JOHN C., US
[72] DIETL, STEVEN, US
[72] FACCHINI, CHARLES, US
[72] HARAN, TODD, US
[72] MARKHAM, ROGER, US
[72] MURRAY, MICHAEL, US
[72] ROSEBROUGH, SCOTT, US
[72] SERBICKI, JEFFREY, US
[72] YANG, QING, US
[71] DEFINITIVE BIOTECHNOLOGIES LLC, US
[85] 2024-03-08
[86] 2022-09-09 (PCT/US2022/043137)
[87] (WO2023/229625)
[30] US (63/243,005) 2021-09-10

[21] **3,232,393**
[13] A1
[51] **Int.Cl. E21B 49/08 (2006.01) E21B 43/12 (2006.01)**
[25] EN
[54] **GAS-LIFT CONTROL**
[54] **COMMANDE D'ASCENSION AU GAZ**
[72] RASHID, KASHIF, US
[72] GAMBARETTO, AGUSTIN, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-08
[86] 2022-09-08 (PCT/US2022/042843)
[87] (WO2023/039025)
[30] US (63/242,117) 2021-09-09

[21] **3,232,394**
[13] A1
[51] **Int.Cl. A61F 2/30 (2006.01) A61F 2/38 (2006.01)**
[25] EN
[54] **MEGA SPACER FOR SEVERE BONE LOSS AND TUMOR**
[54] **MEGA-ECARTEUR POUR PERTE OSSEUSE GRAVE ET TUMEUR**
[72] HAFEZ, MAHMOUD ALM EL DIN, EG
[71] HAFEZ, MAHMOUD ALM EL DIN, EG
[85] 2024-03-20
[86] 2022-09-01 (PCT/EG2022/000031)
[87] (WO2023/051889)
[30] EG (1539/2021) 2021-09-28

[21] **3,232,395**
[13] A1
[51] **Int.Cl. B61D 7/00 (2006.01) B61D 9/00 (2006.01) B61D 9/02 (2006.01)**
[25] EN
[54] **ONE-WAY DUMP RAILROAD CAR**
[54] **WAGON DE CHEMIN DE FER A BENNE UNIDIRECTIONNELLE**
[72] MILLER, DANIEL L., US
[71] JK-CO LLC, US
[85] 2024-03-08
[86] 2022-09-09 (PCT/US2022/042980)
[87] (WO2023/039117)
[30] US (63/242,796) 2021-09-10

[21] **3,232,396**
[13] A1
[51] **Int.Cl. G06Q 10/1093 (2023.01) H04L 67/306 (2022.01)**
[25] EN
[54] **APPARATUS AND METHOD FOR SHORT VIDEO INTERACTION/INTRODUCTION**
[54] **APPAREIL ET PROCEDE POUR UNE INTERACTION/INTRODUCTION DE VIDEO COURTE**
[72] GRIMMER, LORI, US
[71] GRIMMER, LORI, US
[85] 2024-03-08
[86] 2022-09-09 (PCT/US2022/043003)
[87] (WO2023/039134)
[30] US (63/242,151) 2021-09-09

[21] **3,232,397**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01)**
[25] EN
[54] **GAS-ASSISTED COCRYSTAL DE-SUBLIMATION**
[54] **DESUBLIMATION DE CO-CRISTAUX ASSISTEE PAR GAZ**
[72] SHTEIN, MAX, US
[72] SANVORDENKER, SHEA, US
[71] THE REGENTS OF THE UNIVERSITY OF MICHIGAN, US
[85] 2024-03-08
[86] 2022-09-09 (PCT/US2022/043040)
[87] (WO2023/039153)
[30] US (63/242,533) 2021-09-10

[21] **3,232,399**
[13] A1
[51] **Int.Cl. B23K 9/28 (2006.01) B23K 9/29 (2006.01)**
[25] EN
[54] **INTEGRATED WELDING TORCHES AND EXTENSION CABLES**
[54] **TORCHES DE SOUDAGE INTEGREES ET CABLES D'EXTENSION**
[72] HOEGER, MICHAEL VINCENT, US
[71] ILLINOIS TOOL WORKS INC., US
[85] 2024-03-08
[86] 2022-09-13 (PCT/US2022/043333)
[87] (WO2023/039285)
[30] US (63/243,469) 2021-09-13

[21] **3,232,400**
[13] A1
[51] **Int.Cl. G01N 33/68 (2006.01)**
[25] EN
[54] **METHOD TO PREVENT SAMPLE PREPARATION-INDUCED DISULFIDE SCRAMBLING IN NON-REDUCED PEPTIDE MAPPING**
[54] **PROCEDE DE PREVENTION DE BROUILLAGE DE DISULFURE INDUIT PAR LA PREPARATION D'ECHANTILLONS DANS UNE CARTOGRAPHIE PEPTIDIQUE NON REDUITE**
[72] NIE, SONG, US
[72] GREER, TYLER, US
[72] ZHENG, XIAOJING, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-08
[86] 2022-09-15 (PCT/US2022/043618)
[87] (WO2023/043892)
[30] US (63/245,565) 2021-09-17

[21] **3,232,401**
[13] A1
[51] **Int.Cl. C07K 1/04 (2006.01) B01J 19/00 (2006.01) C07K 1/06 (2006.01)**
[25] EN
[54] **SOLID PHASE PEPTIDE SYNTHESIS (SPPS) PROCESSES AND ASSOCIATED SYSTEMS**
[54] **PROCEDES DE SYNTHESE DE PEPTIDE EN PHASE SOLIDE (SPPS) ET SYSTEMES ASSOCIES**
[72] COLLINS, JONATHAN MCKINNON, US
[72] SINGH, SANDEEP K., US
[72] HERMAN, DAVID LEE, US
[72] TUBB, LEVI JOSHUA, US
[71] CEM CORPORATION, US
[85] 2024-03-11
[86] 2022-09-16 (PCT/US2022/043806)
[87] (WO2023/044004)
[30] US (63/245,674) 2021-09-17
[30] US (63/401,349) 2022-08-26

[21] **3,232,402**
[13] A1
[51] **Int.Cl. E21B 43/26 (2006.01) E21B 23/00 (2006.01)**
[25] EN
[54] **DEBRIS RESISTANT ALIGNMENT SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE D'ALIGNEMENT RESISTANT AUX DEBRIS**
[72] DIETZ, WESLEY P., US
[72] STEELE, DAVID JOE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-12
[86] 2021-11-10 (PCT/US2021/058806)
[87] (WO2023/086085)
[30] US (17/523,469) 2021-11-10

[21] **3,232,403**
[13] A1
[51] **Int.Cl. G01C 19/5776 (2012.01)**
[25] EN
[54] **VIBRATION-TYPE ANGULAR RATE SENSOR**
[54] **CAPTEUR DE VITESSE ANGULAIRE DU TYPE A VIBRATION**
[72] MORIGUCHI, TAKAFUMI, JP
[71] SUMITOMO PRECISION PRODUCTS CO., LTD., JP
[85] 2024-03-11
[86] 2021-09-13 (PCT/JP2021/033607)
[87] (WO2023/037559)

[21] **3,232,404**
[13] A1
[51] **Int.Cl. H01M 8/0213 (2016.01) H01M 8/0221 (2016.01) H01M 8/0226 (2016.01)**
[25] EN
[54] **FUEL CELL SEPARATOR**
[54] **SEPARATEUR DE PILE A COMBUSTIBLE**
[72] TANNO, FUMIO, JP
[71] NISSHINBO CHEMICAL INC., JP
[85] 2024-03-11
[86] 2022-07-28 (PCT/JP2022/029141)
[87] (WO2023/047796)
[30] JP (2021-156637) 2021-09-27

[21] **3,232,405**
[13] A1
[51] **Int.Cl. H03K 5/1252 (2006.01) H03K 3/037 (2006.01) H03K 5/00 (2006.01) H03K 19/21 (2006.01)**
[25] EN
[54] **CIRCUIT AND METHOD FOR ADAPTIVELY ELIMINATING RINGING IN SIGNALS DRIVING CAPACITIVE LOADS**
[54] **CIRCUIT ET PROCEDE D'ELIMINATION ADAPTATIVE DE L'EFFET DE SUR-OSCILLATION DANS DES SIGNAUX EXCITANT DES CHARGES CAPACITIVES**
[72] OCHI, SAM SEIICHIRO, US
[72] TAKATA, TETSUYA, JP
[72] YUZURIHARA, ITSUO, JP
[72] YONEYAMA, TOMOHIRO, JP
[72] HOSOYAMADA, YU, JP
[71] ANALOG POWER CONVERSION LLC, US
[71] KYOSAN ELECTRIC MANUFACTURING CO., LTD., JP
[85] 2024-03-12
[86] 2022-09-09 (PCT/US2022/043084)
[87] (WO2023/043677)
[30] US (17/475,205) 2021-09-14

[21] **3,232,406**
[13] A1
[51] **Int.Cl. B23K 9/12 (2006.01) B23K 9/09 (2006.01) B23K 9/173 (2006.01)**
[25] EN
[54] **WELDING CONTROL METHOD, WELDING CONTROL DEVICE, WELDING POWER SUPPLY, WELDING SYSTEM, PROGRAM, WELDING METHOD, AND ADDITIVE MANUFACTURING METHOD**
[54] **PROCEDE DE COMMANDE DE SOUDAGE, DISPOSITIF DE COMMANDE DE SOUDAGE, ALIMENTATION ELECTRIQUE DE SOUDAGE, SYSTEME DE SOUDAGE, PROGRAMME, PROCEDE DE SOUDAGE ET PROCEDE DE FABRICATION ADDITIVE**
[72] YAMAZAKI, KEI, JP
[72] KITAMURA, YOSHIAKI, JP
[71] KABUSHIKI KAISHA KOBE SEIKO SHO (KOBE STEEL, LTD.), JP
[85] 2024-03-11
[86] 2022-08-02 (PCT/JP2022/029717)
[87] (WO2023/042565)
[30] JP (2021-152554) 2021-09-17

[21] **3,232,407**
[13] A1
[51] **Int.Cl. B05C 1/08 (2006.01) B05C 9/04 (2006.01) B05D 1/28 (2006.01) B05D 7/16 (2006.01) C21D 8/12 (2006.01)**
[25] EN
[54] **PROCESS FOR MANUFACTURING A STEEL STRIP FOR ELECTRICAL APPLICATIONS AND ASSOCIATED APPARATUS**
[54] **PROCEDE DE FABRICATION D'UNE BANDE D'ACIER POUR APPLICATIONS ELECTRIQUES ET APPAREIL ASSOCIE**
[72] RUWET, VINCENT, BE
[72] HANQUET, CHARLES, BE
[72] HERNANDEZ, JACQUES, FR
[72] CHARBONNEL, YVES, FR
[71] ARCELORMITTAL, LU
[85] 2024-03-12
[86] 2022-10-06 (PCT/IB2022/059551)
[87] (WO2023/057948)
[30] IB (PCT/IB2021/059204) 2021-10-07

[21] **3,232,408**
[13] A1
[51] **Int.Cl. E21B 23/02 (2006.01) E21B 23/00 (2006.01) E21B 41/00 (2006.01) E21B 43/10 (2006.01) E21B 43/26 (2006.01)**
[25] EN
[54] **DEBRIS RESISTANT KEYED RUNNING TOOL AND METHOD**
[54] **PROCEDE ET OUTIL DE POSE CLAVETE RESISTANT AUX DEBRIS**
[72] DIETZ, WESLEY P., US
[72] STEELE, DAVID JOE, US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-12
[86] 2021-11-10 (PCT/US2021/058830)
[87] (WO2023/086086)
[30] US (17/523,533) 2021-11-10

[21] **3,232,409**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/06 (2006.01) A61M 16/10 (2006.01) A61M 16/20 (2006.01)**
[25] EN
[54] **DATA-INTEGRATED ARTIFICIAL VENTILATION SYSTEM**
[54] **SYSTEME DE VENTILATION ARTIFICIELLE A INTEGRATION DE DONNEES**
[72] MAGUIRE, MICHAEL D., US
[71] AIRMID CRITICAL CARE PRODUCTS, INC., US
[85] 2024-03-11
[86] 2022-07-08 (PCT/US2022/036460)
[87] (WO2023/132862)
[30] US (17/572,233) 2022-01-10
[30] US (PCT/US2022/011830) 2022-01-10

[21] **3,232,410**
[13] A1
[51] **Int.Cl. B66D 3/04 (2006.01) F16H 55/36 (2006.01)**
[25] EN
[54] **SHEAVE ASSEMBLY**
[54] **ENSEMBLE REA**
[72] MINNIS, ANDRE, GB
[71] MINDLING DESIGN LIMITED, GB
[85] 2024-03-12
[86] 2022-08-11 (PCT/GB2022/052091)
[87] (WO2023/057732)
[30] GB (2114316.9) 2021-10-06

[21] **3,232,411**
[13] A1
[51] **Int.Cl. A61K 31/568 (2006.01) A61K 9/00 (2006.01) A61K 38/26 (2006.01) A61P 3/08 (2006.01)**
[25] EN
[54] **BIOACTIVE MOLECULES FOR USE IN TREATING INSULIN RESISTANCE AND/OR RESTORING GLUCOSE HOMEOSTASIS**
[54] **MOLECULES BIOACTIVES A UTILISER DANS LE TRAITEMENT DE L'INSULINORESISTANCE ET/OU LA RESTAURATION DE L'HOMEOSTASIE DU GLUCOSE**
[72] MALBERT, CHARLES-HENRI, FR
[72] ALLOUCHE, MAURICE REGINALD, FR
[71] PALTECH, FR
[85] 2024-03-11
[86] 2022-09-14 (PCT/IB2022/000517)
[87] (WO2023/041980)
[30] FR (PCT/FR2021/051573) 2021-09-14

[21] **3,232,412**
[13] A1
[51] **Int.Cl. C07D 213/74 (2006.01) A61K 31/44 (2006.01) A61K 31/4427 (2006.01) A61K 31/4709 (2006.01) A61K 31/4725 (2006.01) A61K 31/496 (2006.01) A61K 31/498 (2006.01) A61K 31/506 (2006.01) A61K 31/5377 (2006.01) A61P 25/00 (2006.01) C07D 401/12 (2006.01) C07D 401/14 (2006.01) C07D 417/12 (2006.01) C07D 491/107 (2006.01)**
[25] EN
[54] **AMINOPYRIDINES AS ACTIVATORS OF PI3 KINASE**
[54] **AMINOPYRIDINES SERVANT D'ACTIVATEURS DE LA PI3-KINASE**
[72] VANHAESEBROECK, BART, GB
[72] WILLIAMS, ROGER L., GB
[72] ANGELL, RICHARD, GB
[72] ALLSOP, BEN, GB
[72] ASKWITH, TREVOR, GB
[72] HOOPER, ALICE, GB
[72] YELLON, DEREK M., GB
[72] CHAN, AW EDITH, GB
[72] OXENFORD, SALLY, GB
[71] UCL BUSINESS LTD, GB
[71] UNITED KINGDOM RESEARCH AND INNOVATION, GB
[85] 2024-03-11
[86] 2022-09-14 (PCT/GB2022/052323)
[87] (WO2023/041905)
[30] GB (2113079.4) 2021-09-14

[21] **3,232,413**
[13] A1
[51] **Int.Cl. H03F 3/217 (2006.01) H03F 1/56 (2006.01) H03F 3/193 (2006.01) H03F 3/21 (2006.01)**
[25] EN
[54] **BRIDGED CLASS-D RF AMPLIFIER CIRCUIT**
[54] **CIRCUIT AMPLIFICATEUR RF DE CLASSE D PONTE**
[72] OCHI, SAM SEIICHIRO, US
[72] SDRULLA, DUMITRU GHEORGE, US
[72] GU, W. ALBERT, US
[72] TAKATA, TETSUYA, JP
[72] YUZURIHARA, ITSUO, JP
[72] YONEYAMA, TOMOHIRO, JP
[72] HOSOYAMADA, YU, JP
[71] ANALOG POWER CONVERSION LLC, US
[71] KYOSAN ELECTRIC MANUFACTURING CO., LTD., JP
[85] 2024-03-12
[86] 2022-09-09 (PCT/US2022/043145)
[87] (WO2023/043686)
[30] US (17/475,234) 2021-09-14

[21] **3,232,414**
[13] A1
[51] **Int.Cl. C21D 1/18 (2006.01) C21D 1/28 (2006.01) C21D 1/673 (2006.01) C21D 8/02 (2006.01) C22C 38/02 (2006.01) C22C 38/04 (2006.01) C22C 38/22 (2006.01) C22C 38/26 (2006.01) C22C 38/28 (2006.01) C22C 38/32 (2006.01) C23C 2/06 (2006.01) C23C 2/12 (2006.01)**
[25] EN
[54] **HIGH STRENGTH PRESS HARDENED STEEL PART AND METHOD OF MANUFACTURING THE SAME**
[54] **PIECE EN ACIER TREMPE A LA PRESSE A HAUTE RESISTANCE ET SON PROCEDE DE FABRICATION**
[72] COBO, SEBASTIAN, FR
[72] DUMONT, ALICE, FR
[72] DIETSCH, PASCAL, FR
[72] MICHAUT, STEPHANIE, FR
[71] ARCELORMITTAL, LU
[85] 2024-03-12
[86] 2022-08-26 (PCT/IB2022/058005)
[87] (WO2023/042018)
[30] IB (PCT/IB2021/058358) 2021-09-14

[21] **3,232,415**
[13] A1
[51] **Int.Cl. E21B 47/12 (2012.01) E21B 4/02 (2006.01) E21B 17/042 (2006.01) E21B 17/10 (2006.01) E21B 47/024 (2006.01)**
[25] EN
[54] **RANGING SOLENOID COIL TRANSMITTER AROUND DOWNHOLE BOTTOM HOLE ASSEMBLY ELEMENTS**
[54] **EMETTEUR DE BOBINE D'ELECTRO-AIMANT DE TELEMETRIE AUTOUR D'ELEMENTS D'ENSEMBLE DE TROU INFERIEUR DE FOND DE TROU**
[72] HAY, CHARLES RICHARD THOMAS, US
[72] HINKE, SEAN, CA
[72] SCHIERMEIER, PETE L., US
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-11
[86] 2021-12-16 (PCT/US2021/063749)
[87] (WO2023/113798)
[30] US (17/549,126) 2021-12-13

[21] **3,232,416**
[13] A1
[51] **Int.Cl. H01L 27/07 (2006.01) H01L 29/78 (2006.01) H01L 29/872 (2006.01)**
[25] EN
[54] **SCHOTTKY DIODE INTEGRATED WITH A SEMICONDUCTOR DEVICE**
[54] **DIODE SCHOTTKY INTEGREE A UN DISPOSITIF A SEMI-CONDUCTEUR**
[72] GENDRON-HANSEN, AMAURY, US
[72] SDRULLA, DUMITRU GHEORGE, US
[72] SZEPESI, LESLIE LOUIS, US
[72] TAKATA, TETSUYA, JP
[72] YUZURIHARA, ITSUO, JP
[72] YONEYAMA, TOMOHIRO, JP
[72] HOSOYAMADA, YU, JP
[71] ANALOG POWER CONVERSION LLC, US
[71] KYOSAN ELECTRIC MANUFACTURING CO., LTD., JP
[85] 2024-03-12
[86] 2022-09-09 (PCT/US2022/043147)
[87] (WO2023/043687)

[21] **3,232,417**
[13] A1
[51] **Int.Cl. E21B 23/04 (2006.01) E21B 4/02 (2006.01) E21B 23/01 (2006.01) E21B 41/00 (2006.01)**
[25] EN
[54] **PISTON-LESS DOWNHOLE TOOLS AND PISTON-LESS PRESSURE COMPENSATION TOOLS**
[54] **OUTILS DE FOND DE TROU SANS PISTON ET OUTILS DE COMPENSATION DE PRESSION SANS PISTON**
[72] BROWN, IRVINE, GB
[71] HALLIBURTON ENERGY SERVICES, INC., US
[85] 2024-03-11
[86] 2021-12-28 (PCT/US2021/065396)
[87] (WO2023/121677)
[30] US (17/561,208) 2021-12-23

[21] **3,232,418**
[13] A1
[51] **Int.Cl. B60L 53/30 (2019.01) B60L 53/50 (2019.01)**
[25] EN
[54] **MOBILE EV CHARGING STATION**
[54] **STATION DE RECHARGE MOBILE POUR VEHICULES ELECTRIQUES**
[72] FISHER, ERIC R., US
[71] THE SHYFT GROUP, INC., US
[85] 2024-03-12
[86] 2022-09-13 (PCT/US2022/043284)
[87] (WO2023/039272)
[30] US (63/261,113) 2021-09-13
[30] US (63/274,178) 2021-11-01
[30] US (63/284,122) 2021-11-30
[30] US (63/307,664) 2022-02-08
[30] US (17/942,851) 2022-09-12

[21] **3,232,419**
[13] A1
[51] **Int.Cl. G07C 9/00 (2020.01) B60R 25/20 (2013.01)**
[25] EN
[54] **KEY FOR A VEHICLE**
[54] **CLE POUR VEHICULE**
[72] BIANCHI, MASSIMO, IT
[72] BARATTI, LUCA, IT
[71] KEYLINE S.P.A., IT
[85] 2024-03-12
[86] 2022-09-19 (PCT/IB2022/058820)
[87] (WO2023/047262)
[30] IT (102021000024508) 2021-09-23

[21] **3,232,420**
[13] A1
[51] **Int.Cl. C12N 15/113 (2010.01) A61K 31/712 (2006.01) A61K 31/7125 (2006.01) A61K 31/713 (2006.01)**
[25] EN
[54] **INHIBIN SUBUNIT BETA E (INHBE) MODULATOR COMPOSITIONS AND METHODS OF USE THEREOF**
[54] **COMPOSITIONS MODULATRICES DE LA SOUS-UNITE BETA E DE L'INHIBINE (INHBE) ET LEURS PROCEDES D'UTILISATION**
[72] DEATON, AIMEE M., US
[71] ALNYLAM PHARMACEUTICALS, INC., US
[85] 2024-03-12
[86] 2022-09-19 (PCT/US2022/043948)
[87] (WO2023/044094)
[30] US (63/246,084) 2021-09-20

[21] **3,232,421**
[13] A1
[51] **Int.Cl. A61M 39/28 (2006.01) A61M 5/168 (2006.01) A61M 39/22 (2006.01)**
[25] EN
[54] **FLUID CONDUIT SYSTEM**
[54] **SYSTEME DE CONDUIT DE FLUIDE**
[72] CHELLI, NICCOLO', IT
[71] BELLCO S.R.L., IT
[85] 2024-03-12
[86] 2022-11-15 (PCT/IB2022/060959)
[87] (WO2023/042187)

[21] **3,232,422**
[13] A1
[51] **Int.Cl. D04H 1/495 (2012.01) D04H 1/425 (2012.01) D04H 1/4258 (2012.01) D04H 1/498 (2012.01) A61K 8/02 (2006.01)**
[25] EN
[54] **BIODEGRADABLE WIPE**
[54] **LINGETTE BIODEGRADABLE**
[72] SINGH, VINITKUMAR, US
[71] GLATFELTER HOLDING (SWITZERLAND) AG, CH
[85] 2024-03-12
[86] 2022-10-06 (PCT/IB2022/059545)
[87] (WO2023/057945)
[30] DK (PA 2021 70495) 2021-10-06
[30] US (63/252,649) 2021-10-06

[21] **3,232,423**
[13] A1
[51] **Int.Cl. C01B 32/162 (2017.01) B01J 19/08 (2006.01) B82Y 40/00 (2011.01)**
[25] EN
[54] **METHOD FOR SYNTHESIZING CARBON NANOTUBES**
[54] **PROCEDE DE SYNTHESE DE NANOTUBES DE CARBONE**
[72] KIM, DONG SIK, KR
[72] GUO, JIAYIN, CA
[72] KIM, TAE HOON, KR
[72] LEE, HYUNG JIN, KR
[72] MIN, GEUN GI, KR
[72] SONG, DOO HOON, KR
[72] KANG, SOO HEE, KR
[72] KIM, YE BYEOL, KR
[72] KIM, BYOUNG JIN, KR
[72] LEE, SUNG HYUN, KR
[71] LG CHEM, LTD., KR
[71] TEKNA PLASMA SYSTEMS INC., CA
[85] 2024-03-11
[86] 2022-10-19 (PCT/KR2022/095141)
[87] (WO2023/068916)
[30] KR (10-2021-0139495) 2021-10-19

[21] **3,232,424**
[13] A1
[51] **Int.Cl. A61F 5/00 (2006.01) A61F 5/01 (2006.01)**
[25] EN
[54] **CRANIAL ORTHOSIS**
[54] **ORTHESE CRANIENNE**
[72] EYAL, SHAI, IL
[72] EYAL, NAAMA, IL
[72] BAR-OR, JONATHAN, IL
[71] OCCIPO LTD., IL
[85] 2024-03-12
[86] 2022-09-19 (PCT/IL2022/051000)
[87] (WO2023/042206)
[30] IL (286516) 2021-09-19

[21] **3,232,425**
[13] A1
[51] **Int.Cl. C07K 16/30 (2006.01) A61K 47/68 (2017.01) A61K 31/4745 (2006.01)**
[25] EN
[54] **ANTIBODY-DRUG CONJUGATE, PREPARATION METHOD THEREFOR, AND PHARMACEUTICAL USE THEREOF**
[54] **CONJUGUE ANTICORPS-MEDICAMENT, SON PROCEDE DE PREPARATION ET SON UTILISATION PHARMACEUTIQUE**
[72] MAO, DONGJIE, CN
[72] XIE, YUEJUN, CN
[72] CHEN, LILI, CN
[71] SHANGHAI HANSOH BIOMEDICAL CO., LTD., CN
[71] JIANGSU HANSOH PHARMACEUTICAL GROUP CO., LTD., CN
[71] CHANGZHOU HANSOH PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-20
[86] 2022-09-22 (PCT/CN2022/120481)
[87] (WO2023/046003)
[30] CN (202111116842.X) 2021-09-23

[21] **3,232,426**
[13] A1
[51] **Int.Cl. H01R 4/48 (2006.01) H01R 24/20 (2011.01) H01R 24/28 (2011.01) H01R 11/05 (2006.01) H01R 13/11 (2006.01)**
[25] EN
[54] **SCREWLESS CONNECTION TERMINALS WITH WIRE MANAGER**
[54] **BORNES DE CONNEXION SANS VIS AVEC GESTIONNAIRE DE FILS**
[72] FABOZZI, RICHARD BENJAMIN, US
[72] GAGNER, BRIAN JOHN, US
[72] SCANZILLO, THOMAS L., US
[72] BAZAYEV, EDWARD, US
[71] HUBBELL INCORPORATED, US
[85] 2024-03-20
[86] 2022-09-26 (PCT/US2022/044737)
[87] (WO2023/049455)
[30] US (63/248,609) 2021-09-27

[21] **3,232,427**
[13] A1
[51] **Int.Cl. A01C 7/04 (2006.01)**
[25] EN
[54] **SEED METER WITH SEED RETAINING STRUCTURE**
[54] **DOSEUR DE GRAINES DOTE D'UNE STRUCTURE DE RETENUE DE GRAINES**
[72] FRANK, WILLIAM, US
[72] STUBER, LUKE, US
[72] SCHWIND, TIMOTHY, US
[71] PRECISION PLANTING LLC, US
[85] 2024-03-13
[86] 2022-09-23 (PCT/IB2022/059043)
[87] (WO2023/062464)
[30] US (63/262,512) 2021-10-14

[21] **3,232,428**
[13] A1
[51] **Int.Cl. G06Q 30/0601 (2023.01) G06Q 30/0251 (2023.01)**
[25] EN
[54] **INFORMATION PROCESSING APPARATUS AND INFORMATION PROCESSING METHOD**
[54] **DISPOSITIF DE TRAITEMENT D'INFORMATIONS, PROCEDE DE TRAITEMENT D'INFORMATIONS ET PROGRAMME DE TRAITEMENT D'INFORMATIONS**
[72] IETA, TSUYOSHI, JP
[72] MINOWA, KOUKI, JP
[71] ZOZO, INC., JP
[85] 2024-03-20
[86] 2022-09-27 (PCT/JP2022/035837)
[87] (WO2023/054312)
[30] JP (2021-162368) 2021-09-30

[21] **3,232,430**
[13] A1
[51] **Int.Cl. G01N 21/15 (2006.01) G01N 21/85 (2006.01)**
[25] EN
[54] **CLEANING SYSTEM FOR PROBE UNIT**
[54] **SYSTEME DE NETTOYAGE POUR UNITE DE SONDE**
[72] ALFHEIM, GUNNAR, NO
[72] TANGEN, HALLVARD, NO
[72] MAGNUSSEN, STIAN, NO
[72] NIKOLAISEN, ALEXANDER, NO
[71] PROANALYSIS AS, NO
[85] 2024-03-20
[86] 2022-08-22 (PCT/EP2022/073328)
[87] (WO2023/046387)
[30] NO (20211146) 2021-09-24

[21] **3,232,431**
[13] A1
[51] **Int.Cl. C12N 15/10 (2006.01) C12N 15/74 (2006.01) C12N 15/76 (2006.01)**
[25] EN
[54] **METABOLIC ENGINEERING OF ACTINOMYCETES BY SINGLE CELL MUTANT SELECTION**
[54] **INGENIERIE METABOLIQUE D'ACTINOMYCETES PAR SELECTION DE MUTANT DE CELLULE UNIQUE**
[72] METSA-KETELA, MIKKO, FI
[72] BARAL, BIKASH, FI
[72] AKHGARINAZARLOU, AMIRBEHZAD, FI
[71] TURUN YLIOPISTO, FI
[85] 2024-03-11
[86] 2022-10-05 (PCT/FI2022/050664)
[87] (WO2023/057688)
[30] FI (20216030) 2021-10-06

[21] **3,232,432**
[13] A1
[51] **Int.Cl. G10K 11/04 (2006.01) A61B 8/00 (2006.01)**
[25] EN
[54] **ACOUSTIC COUPLANT DEVICES AND INTERFACE MEDIUMS**
[54] **DISPOSITIFS DE COUPLAGE ACOUSTIQUE ET MILIEUX D'INTERFACE**
[72] STAEBLER, ZACHARY, US
[72] WEGNER, ALLAN, US
[71] DECISION SCIENCES MEDICAL COMPANY, LLC, US
[85] 2024-03-13
[86] 2022-09-13 (PCT/US2022/043386)
[87] (WO2023/039297)
[30] US (63/243,670) 2021-09-13

[21] **3,232,433**
[13] A1
[51] **Int.Cl. A61B 5/15 (2006.01) B01L 3/00 (2006.01)**
[25] EN
[54] **DUAL CHAMBER SPECIMEN COLLECTION CONTAINER ASSEMBLY**
[54] **ENSEMBLE RECIPIENT DE COLLECTE D'ECHANTILLON A DOUBLE CHAMBRE**
[72] NAIR, ARUN U., US
[72] WIGH, SHRUTI, US
[71] BECTON, DICKINSON AND COMPANY, US
[85] 2024-03-20
[86] 2022-09-16 (PCT/US2022/043750)
[87] (WO2023/049033)
[30] US (63/246,496) 2021-09-21

[21] **3,232,434**
[13] A1
[51] **Int.Cl. G06T 9/00 (2006.01) H04N 19/54 (2014.01) H04N 19/597 (2014.01)**
[25] EN
[54] **POINT CLOUD DATA FRAMES COMPRESSION**
[54] **COMPRESSION DE TRAMES DE DONNEES EN NUAGE DE POINTS**
[72] POULARAKIS, STERGIOS, GB
[72] EYLES, CHRISTIAN, GB
[71] V-NOVA INTERNATIONAL LTD., GB
[85] 2024-03-20
[86] 2022-09-22 (PCT/GB2022/052406)
[87] (WO2023/047119)
[30] EP (21386059.6) 2021-09-23

[21] **3,232,435**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) A61P 31/04 (2006.01)**
[25] EN
[54] **A COMPOSITION FOR ANTI-BACTERIAL BIO-CELLULOSIC PATCHES USEFUL FOR TRANSDERMAL DRUG DELIVERY AND A PROCESS FOR THE PREPARATION THEREOF**
[54] **COMPOSITION POUR TIMBRES BIOCELLULOSIQUES ANTIBACTERIENS UTILE POUR L'ADMINISTRATION TRANSDERMIQUE DE MEDICAMENTS ET SON PROCEDE DE PREPARATION**
[72] SARAN, SAURABH, IN
[72] KUMAR, MANOJ, IN
[72] CHIB, SHIFALI, IN
[72] BHAT, RAHUL, IN
[72] NANDI, UTPAL, IN
[72] DOGRA, ASHISH, IN
[72] KHAN, INSHAD ALI, IN
[71] COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH AN INDIAN REGISTERED BODY INCORPORATED UNDER THE REGN. OF SOC. ACT (ACT XXI OF 1860), IN
[85] 2024-03-12
[86] 2022-09-30 (PCT/IN2022/050876)
[87] (WO2023/053145)
[30] IN (202111044817) 2021-10-01

[21] **3,232,436**
[13] A1
[51] **Int.Cl. E21B 17/10 (2006.01) E21B 23/14 (2006.01)**
[25] EN
[54] **A WELL TOOL WITH AN ANGLE ORIENTING FEATURE**
[54] **OUTIL DE PUITS DOTE D'UNE FONCTIONNALITE D'ORIENTATION D'ANGLE**
[72] FUGLESTAD, KENNETH, NO
[71] WELL CONVEYOR AS, NO
[85] 2024-03-13
[86] 2022-09-13 (PCT/NO2022/050209)
[87] (WO2023/043316)
[30] NO (20211108) 2021-09-15

[21] **3,232,437**
[13] A1
[51] **Int.Cl. B22D 41/50 (2006.01) B22D 41/52 (2006.01) B22D 41/54 (2006.01) B22D 41/58 (2006.01)**
[25] EN
[54] **LEAK-PROOF UPPER TUNDISH NOZZLE**
[54] **BUSE DE PANIER DE COULEE SUPERIEURE ETANCHE AUX FUITES**
[72] FORMAN, BRUCE R., US
[71] ARCELORMITTAL, LU
[85] 2024-03-11
[86] 2021-09-24 (PCT/IB2021/058717)
[87] (WO2023/047153)

[21] **3,232,438**
[13] A1
[51] **Int.Cl. G01N 33/03 (2006.01) G06T 7/11 (2017.01) G01N 21/17 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **EDIBLE OIL DETERIORATION LEVEL DETERMINATION DEVICE, EDIBLE OIL DETERIORATION LEVEL DETERMINATION SYSTEM, EDIBLE OIL DETERIORATION LEVEL DETERMINATION SYSTEM, EDIBLE OIL DETERIORATION LEVEL LEARNING DEVICE, AND LEARNED MODEL FOR USE IN EDIBLE OIL DETERIORATION LEVEL DETERMINATION**
[54] **DISPOSITIF DE DETERMINATION DE DEGRE DE DETERIORATION D'HUILE ALIMENTAIRE, SYSTEME DE DETERMINATION DE DEGRE DE DETERIORATION D'HUILE ALIMENTAIRE, PROCEDE DE DETERMINATION DE DEGR E DE DETERIORATION D'HUILE ALIMENTAIRE, DISPOSITIF D'APPRENTISSAGE DE DEGRE DE DETERIORATION D'HUILE ALIMENTAIRE, ET MODELE APPRIS DESTINE A ETRE UTILISE DANS LA DETERMINATION DE**
[72] KAKIMOTO, KENICHI, JP
[72] WATANABE, RYOHEI, JP
[72] TAKASAKI, AYATO, JP
[72] INOUE, MASAMI, JP
[71] J-OIL MILLS, INC., JP
[85] 2024-03-12
[86] 2022-09-21 (PCT/JP2022/035127)
[87] (WO2023/054100)
[30] JP (2021-160137) 2021-09-29

[21] **3,232,439**
[13] A1
[51] **Int.Cl. A61K 39/00 (2006.01) A61K 9/08 (2006.01) A61K 9/14 (2006.01) A61K 31/437 (2006.01) A61K 31/7088 (2006.01) A61K 31/715 (2006.01) A61K 31/716 (2006.01) A61K 35/74 (2015.01) A61K 38/02 (2006.01) A61K 38/16 (2006.01) A61K 39/39 (2006.01) A61K 45/00 (2006.01) A61K 47/36 (2006.01) A61P 35/00 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **MEDICAMENT FOR TREATMENT AND/OR PREVENTION OF CANCER**
[54] **MEDICAMENT POUR LE TRAITEMENT ET/OU LA PREVENTION DU CANCER**
[72] SHIBAHARA, KYOKO, JP
[72] OKANO, FUMIYOSHI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2024-03-11
[86] 2022-09-15 (PCT/JP2022/034501)
[87] (WO2023/042872)
[30] JP (2021-150931) 2021-09-16

[21] **3,232,440**
[13] A1
[51] **Int.Cl. B64D 15/12 (2006.01) B64D 15/16 (2006.01) F02C 7/047 (2006.01)**
[25] FR
[54] **COMBINED DE-ICING DEVICE**
[54] **DISPOSITIF DE DEGIVRAGE COMBINE**
[72] BOISSY, LOIC, FR
[72] DUPERRIER, ROMAIN, FR
[71] SAFRAN AEROSYSTEMS, FR
[85] 2024-03-20
[86] 2022-10-12 (PCT/FR2022/051920)
[87] (WO2023/067266)
[30] FR (FR2111073) 2021-10-19

[21] **3,232,442**
[13] A1
[51] **Int.Cl. C07K 14/47 (2006.01) A61K 47/64 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NOVEL PROTEIN AND PHARMACEUTICAL COMPOSITION COMPRISING SAME FOR PREVENTION OR TREATMENT OF CANCER**
[54] **NOUVELLE PROTEINE ET COMPOSITION PHARMACEUTIQUE LA COMPRENANT POUR LA PREVENTION OU LE TRAITEMENT DU CANCER**
[72] LEE, JEE WON, KR
[72] MOON, OK JEONG, KR
[71] CELLEMEDY CO.,LTD, KR
[85] 2024-03-12
[86] 2022-09-19 (PCT/KR2022/013967)
[87] (WO2023/043291)
[30] KR (10-2021-0125051) 2021-09-17

[21] **3,232,443**
[13] A1
[51] **Int.Cl. F04D 25/16 (2006.01) F04D 27/00 (2006.01)**
[25] EN
[54] **FAN ARRAY DIAGNOSTIC AND MONITORING SYSTEM AND METHOD**
[54] **SYSTEME ET PROCEDE DE DIAGNOSTIC ET DE SURVEILLANCE DE RESEAUX DE VENTILATEURS**
[72] NYGAARD, TIMOTHY, US
[71] COIL MASTER CORPORATION, US
[85] 2024-03-11
[86] 2022-03-23 (PCT/US2022/021516)
[87] (WO2022/204262)
[30] US (63/165,432) 2021-03-24
[30] US (17/685,976) 2022-03-03

[21] **3,232,444**
[13] A1
[51] **Int.Cl. A23L 33/115 (2016.01) A23D 9/00 (2006.01) A23D 9/007 (2006.01)**
[25] EN
[54] **TREATED SOYBEAN OIL**
[54] **HUILE DE SOJA TRAITEE**
[72] DAVLIN, CATHERINE, US
[72] FRAZIER, AMELIA ELIZABETH, US
[72] SEIBOLD, JON DUKE, US
[72] STEVENS, HAROLD JACK, US
[71] GENERAL MILLS INC., US
[85] 2024-03-11
[86] 2022-08-09 (PCT/US2022/039772)
[87] (WO2023/038747)
[30] US (63/243,345) 2021-09-13

[21] **3,232,446**
[13] A1
[51] **Int.Cl. C01B 32/164 (2017.01) C01B 32/162 (2017.01) B01J 13/00 (2006.01) B01J 19/08 (2006.01) B01J 19/24 (2006.01)**
[25] EN
[54] **APPARATUS FOR SYNTHESIZING CARBON NANOTUBES**
[54] **APPAREIL DE SYNTHESE DE NANOTUBES DE CARBONE**
[72] KIM, DONG SIK, KR
[72] GUO, JIAYIN, CA
[72] KIM, TAE HOON, KR
[72] LEE, HYUNG JIN, KR
[72] MIN, GEUN GI, KR
[72] SONG, DOO HOON, KR
[72] KANG, SOO HEE, KR
[72] KIM, YE BYEOL, KR
[72] KIM, BYOUNG JIN, KR
[72] LEE, SUNG HYUN, KR
[71] LG CHEM, LTD., KR
[71] TEKNA PLASMA SYSTEMS INC., CA
[85] 2024-03-11
[86] 2022-10-19 (PCT/KR2022/015959)
[87] (WO2023/068806)
[30] KR (10-2021-0139496) 2021-10-19

[21] **3,232,447**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01) A01C 7/20 (2006.01)**
[25] EN
[54] **SEED BOOT**
[54] **PIECE TRAVAILLANTE**
[72] HODEL, JEREMY, US
[72] WILDERMUTH, PAUL, US
[71] PRECISION PLANTING LLC, US
[85] 2024-03-13
[86] 2022-10-03 (PCT/IB2022/059419)
[87] (WO2023/062476)
[30] US (63/262,415) 2021-10-12

[21] **3,232,448**
[13] A1
[51] **Int.Cl. A01C 5/06 (2006.01)**
[25] EN
[54] **WEDGE**
[54] **COIN**
[72] HODEL, JEREMY, US
[72] WILDERMUTH, PAUL, US
[71] PRECISION PLANTING LLC, US
[85] 2024-03-13
[86] 2022-10-10 (PCT/IB2022/059681)
[87] (WO2023/062500)
[30] US (63/262,417) 2021-10-12

[21] **3,232,450**
[13] A1
[51] **Int.Cl. B05B 15/65 (2018.01)**
[25] EN
[54] **VALVE ASSEMBLY**
[54] **ENSEMBLE VANNE**
[72] STUBER, LUKE, US
[72] SCHWIND, TIMOTHY, US
[72] SLONEKER, DILLON, US
[71] PRECISION PLANTING LLC, US
[85] 2024-03-13
[86] 2023-01-04 (PCT/IB2023/050057)
[87] (WO2023/135492)
[30] US (63/266,694) 2022-01-12

[21] **3,232,451**
[13] A1
[51] **Int.Cl. A61K 38/47 (2006.01) A61M 5/44 (2006.01) A61P 37/00 (2006.01) C07K 16/06 (2006.01)**
[25] EN
[54] **FACILITATED DELIVERY OF CONCENTRATED ANTIBODY FORMULATIONS USING HYALURONIDASE**
[54] **ADMINISTRATION FACILITEE DE FORMULATIONS D'ANTICORPS CONCENTREES A L'AIDE D'HYALURONIDASE**
[72] HOEFINGHOFF, JORIS, AT
[72] LEIDENMUEHLER, PETER, AT
[72] GANGADHARAN, BAGIRATH, AT
[72] HAIDER, NORBERT, AT
[72] NAGY, ANDRAS, AT
[72] LI, ZHAOYANG, US
[71] TAKEDA PHARMACEUTICAL COMPANY LIMITED, JP
[85] 2024-03-13
[86] 2022-09-14 (PCT/IB2022/058670)
[87] (WO2023/042096)
[30] US (63/243,832) 2021-09-14

[21] **3,232,453**
[13] A1
[51] **Int.Cl. H01M 10/44 (2006.01) H01M 4/134 (2010.01) H01M 10/052 (2010.01) H01M 10/0565 (2010.01) H01M 50/414 (2021.01)**
[25] FR
[54] **METHOD OF OPERATING A LITHIUM BATTERY**
[54] **PROCEDE DE FONCTIONNEMENT D'UNE BATTERIE AU LITHIUM**
[72] DESCHAMPS, MARC, FR
[72] BODENEZ, VINCENT, FR
[71] BLUE SOLUTIONS, FR
[85] 2024-03-20
[86] 2022-10-05 (PCT/EP2022/077643)
[87] (WO2023/057486)
[30] FR (FR2110587) 2021-10-06

[21] **3,232,454**
[13] A1
[51] **Int.Cl. B32B 5/26 (2006.01) D06M 17/00 (2006.01)**
[25] EN
[54] **FIBER LAMINATED STRUCTURE AND PRODUCTION METHOD THEREFOR**
[54] **STRUCTURE STRATIFIEE DE FIBRES ET SON PROCEDE DE PRODUCTION**
[72] MUSHA, TETSUYA, JP
[72] HARUTA, MASARU, JP
[72] KANEKO, YUKI, JP
[71] TORAY INDUSTRIES, INC., JP
[85] 2024-03-13
[86] 2022-08-09 (PCT/JP2022/030364)
[87] (WO2023/047824)
[30] JP (2021-155228) 2021-09-24

[21] **3,232,455**
[13] A1
[51] **Int.Cl. H04W 88/16 (2009.01) H04W 4/18 (2009.01) H04W 76/12 (2018.01) H04L 45/02 (2022.01) H04L 45/64 (2022.01) H04L 12/66 (2006.01)**
[25] EN
[54] **COMMUNICATION SYSTEM, CONTROLLER, PROGRAM, AND INFORMATION PROCESSING METHOD**
[54] **SYSTEME DE COMMUNICATION, CONTROLEUR, PROGRAMME, ET PROCEDE DE TRAITEMENT D'INFORMATIONS**
[72] MATSUSHIMA, SATORU, JP
[71] SOFTBANK CORP., JP
[85] 2024-03-13
[86] 2022-09-09 (PCT/JP2022/033861)
[87] (WO2023/042759)
[30] JP (2021-149226) 2021-09-14
[30] JP (2022-032289) 2022-03-03

[21] **3,232,456**
[13] A1
[51] **Int.Cl. A61L 24/06 (2006.01) A61L 27/16 (2006.01) A61L 27/18 (2006.01) A61L 27/50 (2006.01)**
[25] EN
[54] **READY-TO-USE MONOMER-FREE ACRYLIC BONE CEMENT WITH ACCELERATED IN-SITE CURING PROPERTIES**
[54] **CIMENT OSSEUX ACRYLIQUE SANS MONOMERE ET PRET A L'EMPLOI AYANT DES PROPRIETES DE DURCISSEMENT SUR SITE ACCELEREES**
[72] KAUFMANN, ROYI, IL
[72] KAUFMANN, NIMROD, IL
[71] SETBONE MEDICAL LTD., IL
[85] 2024-03-20
[86] 2022-09-29 (PCT/IL2022/051032)
[87] (WO2023/053119)
[30] US (63/249,616) 2021-09-29

[21] **3,232,457**
[13] A1
[51] **Int.Cl. B32B 5/02 (2006.01) B33Y 50/02 (2015.01) B33Y 80/00 (2015.01) B32B 5/24 (2006.01)**
[25] EN
[54] **FABRIC AND METHODS FOR DESIGNING AND MANUFACTURING FABRIC**
[54] **TISSU ET PROCEDES DE CONCEPTION ET DE FABRICATION DE TISSU**
[72] SUN, ZONGHENG, US
[72] CONNELLY, TALIA LIN, US
[72] CHU, KAI-HONG ANTHONY, US
[72] OU, JIFEI, US
[71] OPT INDUSTRIES, INC., US
[85] 2024-03-13
[86] 2022-09-12 (PCT/US2022/043227)
[87] (WO2023/039250)
[30] US (63/243,461) 2021-09-13

[21] **3,232,458**
[13] A1
[51] **Int.Cl. C12N 1/20 (2006.01) C09K 8/582 (2006.01)**
[25] EN
[54] **PSEUDOMONAS AND USE THEREOF**
[54] **PSEUDOMONAS ET SON UTILISATION**
[72] WANG, WEIDONG, CN
[72] HU, JING, CN
[72] CAO, YANBIN, CN
[72] QIAN, QIN, CN
[72] ZHANG, LEI, CN
[72] GUO, LIAOYUAN, CN
[72] CAO, GONGZE, CN
[72] SUN, GANGZHENG, CN
[72] LIN, JUNZHANG, CN
[72] SONG, YONGTING, CN
[72] YUE, SHENGHUI, CN
[72] YUAN, CHANGZHONG, CN
[72] WU, XIAOLING, CN
[72] DING, MINGSHAN, CN
[72] GAO, GUANGJUN, CN
[72] WANG, JING, CN
[72] LIU, TAO, CN
[72] FENG, YUN, CN
[72] LI, CAIFENG, CN
[72] SONG, XIN, CN
[72] CHEN, ZIHUI, CN
[71] CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[71] INSTITUTE OF PETROLEUM ENGINEERING, SHENGLI OILFIELD COMPANY, CHINA PETROLEUM & CHEMICAL CORPORATION, CN
[85] 2024-03-14
[86] 2022-09-16 (PCT/CN2022/119404)
[87] (WO2023/041062)
[30] CN (202111101957.1) 2021-09-18

[21] **3,232,459**
[13] A1
[51] **Int.Cl. C07D 307/83 (2006.01) A61K 31/343 (2006.01) A61P 9/10 (2006.01) A61P 25/00 (2006.01)**
[25] EN
[54] **COMPOUND FOR TREATING DISEASES RELATED TO CEREBRAL ISCHEMIC INJURY**
[54] **COMPOSE POUR LE TRAITEMENT D'UNE MALADIE ASSOCIEE A UNE LESION CEREBRALE ISCHEMIQUE**
[72] ZHU, YONGQIANG, CN
[72] LIU, JIA, CN
[72] WANG, JIA, CN
[72] CHEN, QI, CN
[72] YANG, YANG, CN
[71] JIANGSU CHIA TAI FENGHAI PHARMACEUTICAL CO., LTD., CN
[85] 2024-01-18
[86] 2022-07-20 (PCT/CN2022/106618)
[87] (WO2023/001164)

[21] **3,232,460**
[13] A1
[51] **Int.Cl. A23G 3/34 (2006.01) A23P 20/15 (2016.01) A23P 20/18 (2016.01) A23P 30/20 (2016.01) A23G 3/20 (2006.01) A23G 3/22 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR COATING SOFT AND STICKY FOOD CORES**
[54] **SYSTEME ET PROCEDE D'ENROBAGE DE C□URS ALIMENTAIRES MOUS ET COLLANTS**
[72] MOSS, JAMES ANDREW, CA
[72] STINGACIU, SORIN, CA
[71] GENERAL MILLS, INC., US
[85] 2024-03-13
[86] 2022-09-13 (PCT/US2022/043295)
[87] (WO2023/039273)
[30] US (63/243,355) 2021-09-13

[21] **3,232,461**
[13] A1
[51] **Int.Cl. B29C 65/18 (2006.01) A47J 31/40 (2006.01) B29C 65/00 (2006.01) B65D 77/20 (2006.01) B65D 85/804 (2006.01) B67D 1/08 (2006.01)**
[25] EN
[54] **IMPROVEMENTS IN OR RELATING TO BEVERAGE CAPSULES**
[54] **AMELIORATIONS APPORTEES A DES CAPSULES POUR BOISSON OU SE RAPPORTANT A CELLES-CI**
[72] GKIOULEN, SINEM, NL
[72] YORK, GEOFF, GB
[72] JONES, CHRISTOPHER JOHN, GB
[72] TAYLOR, BENEDICT WILLIAM FLYNN, GB
[72] EDWARDS, MATTHEW, GB
[71] KONINKLIJKE DOUWE EGBERTS B.V., NL
[85] 2024-03-14
[86] 2022-10-03 (PCT/EP2022/077458)
[87] (WO2023/057382)
[30] GB (2114192.4) 2021-10-04

[21] **3,232,463**
[13] A1
[51] **Int.Cl. C07K 16/18 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **METHODS OF CONTROLLING ANTIBODY HETEROGENEITY**
[54] **PROCEDES DE CONTROLE DE L'HETEROGENEITE D'ANTICORPS**
[72] MELLORS, PHILIP, US
[72] HOURIHAN, JOHN, US
[72] CROWLEY, JOHN, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-20
[86] 2022-09-20 (PCT/US2022/044066)
[87] (WO2023/044139)
[30] US (63/246,047) 2021-09-20

[21] **3,232,464**
[13] A1
[51] **Int.Cl. C11D 1/72 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE UNIT DOSE ARTICLE COMPRISING AN ETHOXYLATED SECONDARY ALCOHOL NON-IONIC SURFACTANT**
[54] **ARTICLE EN DOSE UNITAIRE SOLUBLE DANS L'EAU COMPRENANT UN TENSIOACTIF NON IONIQUE D'ALCOOL SECONDAIRE ETHOXYLE**
[72] ANDRIESSEN, HILDE FRANCOISE LOUISE, BE
[72] DEBRECZENI, MATE, BE
[72] DEPOOT, KAREL JOZEF MARIA, BE
[72] KEULEERS, ROBBY RENILDE FRANCOIS, BE
[72] LABIE, JULIEN, BE
[72] VINSON, PHILLIP KYLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-20
[86] 2023-03-02 (PCT/US2023/063538)
[87] (WO2023/168309)
[30] EP (22159622.4) 2022-03-02

[21] **3,232,465**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G06F 40/30 (2020.01) G16H 10/20 (2018.01) G16H 40/67 (2018.01) G10L 15/18 (2013.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATING DELIVERY OF MENTAL HEALTH THERAPY**
[54] **SYSTEMES ET PROCEDES D'AUTOMATISATION DE L'ADMINISTRATION D'UNE THERAPIE DE SANTE MENTALE**
[72] SHIRAZI, AMIRHOSSEIN, US
[72] OMRANI, MOHSEN, US
[71] OPTT HEALTH, INC., US
[85] 2024-03-13
[86] 2022-09-14 (PCT/US2022/043514)
[87] (WO2023/043828)
[30] US (63/244,436) 2021-09-15

[21] **3,232,466**
[13] A1
[51] **Int.Cl. B21D 17/04 (2006.01) B21C 37/20 (2006.01) B21D 15/06 (2006.01) B21D 17/02 (2006.01) B21H 7/18 (2006.01)**
[25] EN
[54] **PIPE GROOVER**
[54] **MACHINE A RAINER LES TUYAUX**
[72] MAKSIMOWSKI, JOSEPH, US
[72] GUNTER, LARRY KEITH, US
[71] ASC ENGINEERED SOLUTIONS, LLC, US
[85] 2024-03-13
[86] 2022-09-16 (PCT/US2022/043856)
[87] (WO2023/044042)
[30] US (63/245,511) 2021-09-17

[21] **3,232,468**
[13] A1
[51] **Int.Cl. F16L 15/04 (2006.01)**
[25] EN
[54] **OIL-WELL METAL PIPE**
[54] **TUYAU METALLIQUE POUR PUITS DE PETROLE**
[72] ABE, TOMOKA, JP
[72] TOMIYASU, KEN, JP
[72] MATSUMOTO, KEISHI, JP
[72] OCHIAI, MAMORU, JP
[72] IWAKI, YUICHI, JP
[71] NIPPON STEEL CORPORATION, JP
[71] VALLOUREC OIL AND GAS FRANCE, FR
[85] 2024-03-20
[86] 2022-10-13 (PCT/JP2022/038193)
[87] (WO2023/063384)
[30] JP (2021-169257) 2021-10-15

[21] **3,232,470**
[13] A1
[51] **Int.Cl. C07K 14/745 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR EXPRESSING FACTOR IX FOR HEMOPHILIA B THERAPY**
[54] **COMPOSITIONS ET METHODES POUR EXPRIMER LE FACTEUR IX POUR UNE THERAPIE CONTRE L'HEMOPHILIE B**
[72] SABIN, LEAH, US
[72] KYRATSOUS, CHRISTOS, US
[72] PEFANIS, EVANGELOS, US
[72] MOLLER-TANK, SVEN, US
[72] KATAKOWSKI, JOSEPH, US
[72] BAIK, ANDREW, US
[72] CYGNAR, KATHERINE, US
[72] SAMAI, POULAMI, US
[72] CALAFATI, PHILIP, US
[71] REGENERON PHARMACEUTICALS, INC., US
[85] 2024-03-20
[86] 2022-10-27 (PCT/US2022/078798)
[87] (WO2023/077012)
[30] US (63/272,324) 2021-10-27
[30] US (63/306,037) 2022-02-02
[30] US (63/369,864) 2022-07-29

[21] **3,232,472**
[13] A1
[51] **Int.Cl. C07K 16/00 (2006.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) C07K 16/28 (2006.01)**
[25] EN
[54] **ANTI-KLB ANTIBODIES AND USES**
[54] **ANTICORPS ANTI-KLB ET LEURS UTILISATIONS**
[72] ZHANG, LING, CN
[72] YING, HUA, CN
[72] ZHANG, MINGXI, CN
[72] JIN, XINSHENG, CN
[72] TAO, WEIKANG, CN
[71] JIANGSU HENGRUI PHARMACEUTICALS CO., LTD., CN
[71] SHANGHAI HENGRUI PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-14
[86] 2022-09-23 (PCT/CN2022/120887)
[87] (WO2023/046071)
[30] CN (202111110895.0) 2021-09-23

[21] **3,232,473**
[13] A1
[51] **Int.Cl. C25D 3/56 (2006.01) C25D 5/36 (2006.01) C25D 7/00 (2006.01)**
[25] FR
[54] **THREADED END OF A TUBULAR COMPONENT PROVIDED WITH A COATING COMPRISING A ZINC-CHROMIUM ALLOY**
[54] **EXTREMITE FILETEE D'UN COMPOSANT TUBULAIRE POURVUE D'UN REVETEMENT COMPRENANT UN ALLIAGE ZINC-CHROME**
[72] ANTOINE, ALEXANDRE, FR
[71] VALLOUREC OIL AND GAS FRANCE, FR
[71] NIPPON STEEL CORPORATION, JP
[85] 2024-03-20
[86] 2022-10-06 (PCT/EP2022/077856)
[87] (WO2023/057594)
[30] FR (FR2110615) 2021-10-07

[21] **3,232,474**
[13] A1
[51] **Int.Cl. C11D 1/72 (2006.01) C11D 1/83 (2006.01) C11D 17/04 (2006.01)**
[25] EN
[54] **WATER-SOLUBLE UNIT DOSE ARTICLE COMPRISING AN ETHOXYLATED SECONDARY ALCOHOL NON-IONIC SURFACTANT**
[54] **ARTICLE EN DOSE UNITAIRE SOLUBLE DANS L'EAU COMPRENANT UN TENSIOACTIF NON IONIQUE D'ALCOOL SECONDAIRE ETHOXYLE**
[72] ANDRIESSEN, HILDE FRANCOISE LOUISE, BE
[72] DEBRECZENI, MATE, BE
[72] DEPOOT, KAREL JOZEF MARIA, BE
[72] KEULEERS, ROBBY RENILDE FRANCOIS, BE
[72] LABIE, JULIEN, BE
[72] VINSON, PHILLIP KYLE, US
[71] THE PROCTER & GAMBLE COMPANY, US
[85] 2024-03-20
[86] 2023-03-02 (PCT/US2023/063539)
[87] (WO2023/168310)
[30] EP (22159624.0) 2022-03-02

[21] **3,232,475**
[13] A1
[51] **Int.Cl. E06B 9/322 (2006.01) E06B 9/323 (2006.01) E06B 9/262 (2006.01)**
[25] EN
[54] **MOTOR ASSEMBLY FOR AN ARCHITECTURAL OPENING COVERING SYSTEM**
[54] **ENSEMBLE MOTEUR POUR SYSTEME DE REVETEMENT D'OUVERTURE ARCHITECTURALE**
[72] BOHLEN, JORG, NL
[71] HUNTER DOUGLAS INDUSTRIES B.V., NL
[85] 2024-03-20
[86] 2022-08-26 (PCT/EP2022/073768)
[87] (WO2023/046411)
[30] GB (2113477.0) 2021-09-22

[21] **3,232,477**
[13] A1
[51] **Int.Cl. F16K 17/02 (2006.01) F16K 31/00 (2006.01) F16K 37/00 (2006.01) F16K 49/00 (2006.01)**
[25] EN
[54] **VALVE WITH RE-MELTING EXPANSION PORT**
[54] **SOUPAPE A ORIFICE DE DILATATION DE REFUSION**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-20
[86] 2022-09-13 (PCT/US2022/043352)
[87] (WO2023/048993)
[30] US (17/485,676) 2021-09-27

[21] **3,232,478**
[13] A1
[51] **Int.Cl. H10K 30/15 (2023.01) H10K 30/40 (2023.01) H10K 30/82 (2023.01) H10K 30/85 (2023.01) H10K 30/86 (2023.01) H10K 71/12 (2023.01) H10K 85/20 (2023.01) H10K 85/50 (2023.01)**
[25] EN
[54] **METHODS FOR PREPARING PEROVSKITE SOLAR CELLS (PSCS) AND THE RESULTING PSCS**
[54] **PROCEDES DE PREPARATION DE CELLULES SOLAIRES DE PEROVSKITE (PSC) ET LES PSC RESULTANTES**
[72] DRUFFEL, THAD, US
[72] GRAPPERHAUS, CRAIG A., US
[72] CHAPAGAIN, SASHIL, US
[72] ARMSTRONG, PETER JAMES, US
[72] MARTIN, BLAKE, US
[72] VAN HEST, MARINUS FRANCISCUS ANTONIUS MARIA, US
[71] UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC., US
[71] ALLIANCE FOR SUSTAINABLE ENERGY, LLC, US
[85] 2024-03-20
[86] 2022-09-20 (PCT/US2022/076697)
[87] (WO2023/059982)
[30] US (63/261,441) 2021-09-21

[21] **3,232,479**
[13] A1
[51] **Int.Cl. G06T 7/00 (2017.01) G06T 7/11 (2017.01) G06T 7/194 (2017.01)**
[25] EN
[54] **INSPECTION METHOD FOR INSPECTING AN OBJECT AND MACHINE VISION SYSTEM**
[54] **PROCEDE D'INSPECTION POUR INSPECTER UN OBJET ET SYSTEME DE VISION ARTIFICIELLE**
[72] SESSINGHAUS, NADINE, AT
[72] HELMBERGER, MICHAEL, AT
[72] CONWAY, ALEX, ZA
[71] HILTI AKTIENGESELLSCHAFT, LI
[85] 2024-03-14
[86] 2022-10-14 (PCT/EP2022/078674)
[87] (WO2023/072633)
[30] US (17/512,823) 2021-10-28

[21] **3,232,480**
[13] A1
[51] **Int.Cl. F16K 41/02 (2006.01)**
[25] EN
[54] **VALVE WITH EXCHANGEABLE PACKING SEAL CARTRIDGE**
[54] **VANNE DOTEE D'UNE CARTOUCHE DE GARNITURE D'ETANCHEITE INTERCHANGEABLE**
[72] PARISH, PAUL JEFFREY, US
[72] NELSON, MICHAEL P., US
[72] RADMAN, IVICA, US
[71] FLOWSERVE PTE. LTD., SG
[85] 2024-03-20
[86] 2022-09-13 (PCT/US2022/043355)
[87] (WO2023/048994)
[30] US (17/485,678) 2021-09-27

[21] **3,232,481**
[13] A1
[51] **Int.Cl. A61K 9/20 (2006.01)**
[25] EN
[54] **ORAL FORMULATION**
[54] **FORMULATION ORALE**
[72] MISSELWITZ, FRANK, GB
[72] RENNIE, JAMES MAXWELL, GB
[72] MORTEN, ELAINE, GB
[72] HAWKES, ROBERT WILLIAM JOHN, GB
[72] BHATTACHERJEE, ROBIN CHANDRA, GB
[71] ACTIMED THERAPEUTICS LTD, GB
[85] 2024-03-20
[86] 2022-10-11 (PCT/GB2022/052567)
[87] (WO2023/062351)
[30] GB (2114564.4) 2021-10-12

[21] **3,232,484**
[13] A1
[51] **Int.Cl. C08J 9/14 (2006.01)**
[25] EN
[54] **FOAM PRODUCTS AND THEIR PRODUCTION**
[54] **PRODUITS EN MOUSSE ET LEUR PRODUCTION**
[72] DE SCHRYVER, PATRICK, IE
[72] PULLES, TOM, IE
[72] MACK, DANIEL, IE
[72] BUTLER, SAMUEL, IE
[72] ZEGGELAAR, RUUD, IE
[71] KINGSPAN HOLDINGS (IRL) LIMITED, IE
[85] 2024-03-20
[86] 2022-09-23 (PCT/EP2022/076600)
[87] (WO2023/046936)
[30] GB (2113701.3) 2021-09-24

[21] **3,232,485**
[13] A1
[51] **Int.Cl. C12N 9/22 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **SITE-SPECIFIC RECOMBINASES FOR EFFICIENT AND SPECIFIC GENOME EDITING**
[54] **RECOMBINASES SPECIFIQUES DE SITE POUR L'EDITION DU GENOME EFFICACE ET SPECIFIQUE**
[72] HOERSTEN, JENNA, DE
[72] LANSING, FELIX, DE
[72] BUCHHOLZ, FRANK, DE
[71] TECHNISCHE UNIVERSITAT DRESDEN, DE
[85] 2024-03-14
[86] 2022-11-15 (PCT/EP2022/081868)
[87] (WO2023/084099)
[30] EP (21208214.3) 2021-11-15

[21] **3,232,486**
[13] A1
[51] **Int.Cl. A41D 19/00 (2006.01)**
[25] EN
[54] **GLOVE STRUCTURE**
[54] **STRUCTURE DE GANT**
[72] LI, QINGFENG, CN
[72] CAI, WENLAN, CN
[71] JOHN ENGINE SPORTS PRODUCTS INC, CN
[85] 2024-03-20
[86] 2022-09-07 (PCT/CN2022/117483)
[87] (WO2023/045757)
[30] CN (202111118812.2) 2021-09-23

[21] **3,232,487**
[13] A1
[51] **Int.Cl. B01J 19/32 (2006.01) B01D 3/32 (2006.01)**
[25] EN
[54] **SUPPORT BEAM FOR SUPPORTING INTERNALS WITHIN A MASS TRANSFER COLUMN**
[54] **POUTRE DE SUPPORT POUR SUPPORTER DES ELEMENTS INTERNES A L'INTERIEUR D'UNE COLONNE DE TRANSFERT DE MASSE**
[72] HEADLEY, DARRAN MATTHEW, US
[71] KOCH-GLITSCH, LP, US
[85] 2024-03-20
[86] 2022-09-28 (PCT/IB2022/059256)
[87] (WO2023/053036)
[30] US (63/250,214) 2021-09-29

[21] **3,232,488**
[13] A1
[51] **Int.Cl. G06N 3/04 (2023.01) G06F 21/55 (2013.01) G06N 20/00 (2019.01) G06N 3/08 (2023.01) G06N 5/00 (2023.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR TRAINING AN AUTOENCODER TO DETECT ANOMALOUS SYSTEM BEHAVIOUR**
[54] **SYSTEME ET PROCEDE D'ENTRAINEMENT D'UN AUTO-CODEUR POUR DETECTER UN COMPORTEMENT ANORMAL DE SYSTEME**
[72] HORRY, SAMUEL, GB
[72] NICKLIN, RICHARD EDWARD JOHN, GB
[72] MAI, HANS-HEINRICH, GB
[71] BAE SYSTEMS PLC, GB
[85] 2024-03-14
[86] 2022-09-15 (PCT/GB2022/052326)
[87] (WO2023/041907)
[30] GB (2113180.0) 2021-09-15
[30] EP (21275130.9) 2021-09-15

[21] **3,232,490**
[13] A1
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 22/00 (2006.01) A63B 21/068 (2006.01)**
[25] EN
[54] **MOTORIZED PILATES REFORMER**
[54] **REFORMEUR DE PILATES MOTORISE**
[72] NEUHAUS, PETER, US
[71] OXEFIT, INC., US
[85] 2024-03-20
[86] 2022-10-03 (PCT/US2022/045493)
[87] (WO2023/059533)
[30] US (17/495,575) 2021-10-06

[21] **3,232,491**
[13] A1
[51] **Int.Cl. A63B 21/00 (2006.01) A63B 21/078 (2006.01)**
[25] EN
[54] **MOTORIZED STRENGTH TRAINING APPARATUS WITH SELECTABLE FORCE MULTIPLICATION**
[54] **APPAREIL D'ENTRAINEMENT MOTORISE A MULTIPLICATION DE FORCE SELECTIONNABLE**
[72] NEUHAUS, PETER, US
[71] OXEFIT, INC., US
[85] 2024-03-20
[86] 2022-10-03 (PCT/US2022/045495)
[87] (WO2023/059534)
[30] US (17/495,584) 2021-10-06

[21] **3,232,492**
[13] A1
[51] **Int.Cl. G06F 21/60 (2013.01) H04L 9/40 (2022.01)**
[25] EN
[54] **METHOD AND DEVICE FOR UNIDIRECTIONAL DATA TRANSFER**
[54] **PROCEDE ET DISPOSITIF DE TRANSFERT DE DONNEES UNIDIRECTIONNEL**
[72] EVANS, DUNCAN BRUCE, GB
[71] PA KNOWLEDGE LIMITED, GB
[85] 2024-03-14
[86] 2022-09-16 (PCT/GB2022/052350)
[87] (WO2023/041923)
[30] GB (2113324.4) 2021-09-17

[21] **3,232,493**
[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01) H04N 21/20 (2011.01) G06F 21/56 (2013.01) H04L 41/16 (2022.01)**
[25] EN
[54] **METHOD AND DEVICE FOR PROCESSING A NETWORK DATA STREAM**
[54] **PROCEDE ET DISPOSITIF DE TRAITEMENT D'UN FLUX DE DONNEES DE RESEAU**
[72] CORRIGAN, ELIZABETH MARY, GB
[71] PA KNOWLEDGE LIMITED, GB
[85] 2024-03-14
[86] 2022-09-16 (PCT/GB2022/052351)
[87] (WO2023/041924)
[30] GB (2113336.8) 2021-09-17
[30] GB (2116710.1) 2021-11-19

[21] **3,232,494**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **MOUNT BRACKET FOR FIBER OPTIC CLOSURE**
[54] **SUPPORT DE MONTAGE POUR FERMETURE DE FIBRE OPTIQUE**
[72] KIMBRELL, EDDIE, US
[72] WITTMEIER, DAVID, US
[72] CLAS, TYLER, US
[71] AFL TELECOMMUNICATIONS LLC, US
[85] 2024-03-20
[86] 2022-09-15 (PCT/US2022/043619)
[87] (WO2023/043893)
[30] US (63/246,126) 2021-09-20

[21] **3,232,495**
[13] A1
[51] **Int.Cl. C12M 1/00 (2006.01) C12M 1/34 (2006.01) C12M 3/00 (2006.01)**
[25] EN
[54] **BIOREACTOR WITH SENSOR ELEMENT**
[54] **BIOREACTEUR AVEC ELEMENT DE DETECTION**
[72] VERAITCH, FARLAN, GB
[72] RAIMES, WILLIAM, GB
[72] SHAPKA, STEPHEN, GB
[72] AMINI, ARMAN, GB
[72] PALMER, JASON, GB
[72] KIPLING, GARY, GB
[72] ROBERTS-JAMES, LEWIS, GB
[71] ORIBIOTECH LTD, GB
[85] 2024-03-14
[86] 2022-09-22 (PCT/GB2022/052402)
[87] (WO2023/047115)
[30] GB (2113675.9) 2021-09-24

[21] **3,232,496**
[13] A1
[51] **Int.Cl. C07H 19/167 (2006.01) A61K 38/45 (2006.01) C07H 1/00 (2006.01) C07H 21/00 (2006.01) C12N 9/10 (2006.01) C12P 19/34 (2006.01) C12P 21/00 (2006.01) C12Q 1/48 (2006.01)**
[25] EN
[54] **S- AND SE- ADENOSYL-L-METHIONINE ANALOGUES WITH ACTIVATED GROUPS FOR TRANSFER BY METHYLTRANSFERASES ON TARGET BIOMOLECULES**
[54] **ANALOGUES DE LA S-ADENOSYL-L-METHIONINE ET DE LA SE-ADENOSYL-L-METHIONINE A GROUPES ACTIVES POUR LE TRANSFERT PAR METHYLTRANSFERASES SUR DES BIOMOLECULES CIBLES**
[72] NEELY, ROBERT, GB
[72] UBYCH, KRYSTIAN, GB
[72] FERNANDEZ-TRILLO, FRANCISCO, ES
[71] THE UNIVERSITY OF BIRMINGHAM, GB
[85] 2024-03-14
[86] 2022-09-27 (PCT/GB2022/052438)
[87] (WO2023/047141)
[30] GB (2113794.8) 2021-09-27

[21] **3,232,497**
[13] A1
[51] **Int.Cl. C08B 37/00 (2006.01) A61K 47/26 (2006.01) A61K 47/36 (2006.01) A61K 8/73 (2006.01)**
[25] EN
[54] **METHODS FOR PRODUCING GLYCATED CHITOSANS**
[54] **PROCEDES DE PRODUCTION DE CHITOSANES GLYQUES**
[72] RAKER, JOSEPH, US
[72] HODE, TOMAS, US
[72] DELAWDER, ABIGAIL, US
[72] ALLERUZZO, LUCIANO, US
[71] IMMUNOPHOTONICS, INC., US
[85] 2024-03-20
[86] 2022-09-21 (PCT/US2022/044229)
[87] (WO2023/049167)
[30] US (63/246,417) 2021-09-21

[21] **3,232,498**
[13] A1
[51] **Int.Cl. A61K 9/16 (2006.01)**
[25] EN
[54] **PHARMACEUTICAL COMPOSITION OF SEPIAPTERIN**
[54] **COMPOSITION PHARMACEUTIQUE DE SEPIAPTERINE**
[72] UDDIN, AKM NASIR, US
[72] DALI, MANDAR VASANT, US
[72] PATEL, DHAVAL, US
[71] PTC THERAPEUTICS, INC., US
[85] 2024-03-20
[86] 2022-09-29 (PCT/US2022/045214)
[87] (WO2023/055923)
[30] US (63/250,167) 2021-09-29

[21] **3,232,499**
[13] A1
[51] **Int.Cl. A01N 63/27 (2020.01)**
[25] EN
[54] **METHOD FOR THE KILLING, INACTIVATING, OR INHIBITING OF HARMFUL BLUE-GREEN ALGAE OR ALGAE CAPABLE OF CAUSING HARMFUL ALGAL BLOOM (HAB)**
[54] **PROCEDE D'ELIMINATION, D'INACTIVATION OU D'INHIBITION D'ALGUES OU D'ALGUES BLEU VERT NUISIBLES SUSCEPTIBLES DE PROVOQUER UNE PROLIFERATION D'ALGUES NUISIBLES (HAB)**
[72] HANSEN, MALTE JARLGAARD, DK
[72] MEHRDANA, FOOJAN, DK
[71] SUNDEW APS, DK
[85] 2024-03-20
[86] 2022-10-10 (PCT/EP2022/078154)
[87] (WO2023/061961)
[30] EP (21202024.2) 2021-10-11
[30] EP (22172778.7) 2022-05-11

[21] **3,232,500**
[13] A1
[51] **Int.Cl. H01M 50/193 (2021.01) H01M 50/184 (2021.01) H01M 50/188 (2021.01) H01M 50/197 (2021.01)**
[25] EN
[54] **SEALING FILM, ELECTRODE LEAD WIRE MEMBER, AND BATTERY**
[54] **FILM D'ETANCHEITE, ELEMENT DE FIL CONDUCTEUR D'ELECTRODE ET BATTERIE**
[72] TAKEYAMA, SHUNSUKE, JP
[72] SAKURAGI, TAKANORI, JP
[72] MEGURO, ATSUFUMI, JP
[72] SHIMIZU, TAKASHI, JP
[71] FUJIMORI KOGYO CO., LTD., JP
[85] 2024-03-20
[86] 2022-09-22 (PCT/JP2022/035403)
[87] (WO2023/048242)
[30] JP (2021-155742) 2021-09-24

[21] **3,232,502**
[13] A1
[51] **Int.Cl. H04W 24/04 (2009.01)**
[25] EN
[54] **TRANSCEIVER POINT BEAM FAILURE RECOVERY**
[54] **REPRISE SUR DEFAILLANCE DE FAISCEAU DANS UN POINT DE TRANSMISSION-RECEPTION**
[72] KOSKELA, TIMO, FI
[72] TURTINEN, SAMULI HEIKKI, FI
[72] WU, CHUNLI, CN
[71] NOKIA TECHNOLOGIES OY, FI
[85] 2024-03-20
[86] 2021-09-24 (PCT/CN2021/120497)
[87] (WO2023/044827)

[21] **3,232,508**
[13] A1
[51] **Int.Cl. A61K 8/73 (2006.01) A61K 8/84 (2006.01) A61K 8/87 (2006.01)**
[25] EN
[54] **POLYMER COMBINATIONS TO IMPROVE FRAGRANCE LONGEVITY**
[54] **COMBINAISONS DE POLYMERES POUR AMELIORER LA LONGEVITE D'UN PARFUM**
[72] LI, GENG, US
[72] FERREIRA, JAIME MANUEL, US
[72] DRUCKER, NATALIE MICHELLE, US
[71] ELC MANAGEMENT LLC, US
[85] 2024-03-20
[86] 2022-09-18 (PCT/US2022/043916)
[87] (WO2023/044083)
[30] US (17/480,092) 2021-09-20

[21] **3,232,512**
[13] A1
[51] **Int.Cl. C07C 55/22 (2006.01) A23L 27/20 (2016.01) A23L 27/21 (2016.01) C07C 229/08 (2006.01)**
[25] EN
[54] **CO-CRYSTAL OF CITRIC ACID AND GLYCINE AND USES THEREOF**
[54] **CO-CRISTAL D'ACIDE CITRIQUE ET DE GLYCINE ET SES UTILISATIONS**
[72] ORLOVIC, MARIJA, NL
[72] MARMOLEJO, CYNTHIA BERENICE, NL
[72] VAN KRIEKEN, JAN, NL
[71] PURAC BIOCHEM B.V., NL
[85] 2024-03-20
[86] 2022-10-14 (PCT/EP2022/078737)
[87] (WO2023/066820)
[30] EP (21203662.8) 2021-10-20

[21] **3,232,516**
[13] A1
[51] **Int.Cl. F24B 13/00 (2006.01) A23B 4/044 (2006.01) A23B 4/052 (2006.01) A47J 37/00 (2006.01) A47J 37/06 (2006.01) A47J 37/07 (2006.01) F23N 3/00 (2006.01) F24B 13/04 (2006.01)**
[25] EN
[54] **MULTI-POINT-CONTROLLED PELLET SMOKER AND GRILL**
[54] **FUMOIR ET GRIL A PELLETS A COMMANDE MULTIPOINT**
[72] RAHMANI, RAMIN KHOSRAVI, US
[72] GAFFORD, ALEX, US
[72] ROBERTS, BRUCE, US
[72] CORSO, DAN, US
[72] ABDALLAH, SLEIMAN, US
[72] HAMILTON, ANTHONY, US
[71] W.C. BRADLEY CO., US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/044018)
[87] (WO2023/044122)
[30] US (63/246,268) 2021-09-20

[21] **3,232,520**
[13] A1
[51] **Int.Cl. C07D 301/10 (2006.01) B01J 23/68 (2006.01)**
[25] EN
[54] **PROCESS FOR REDUCING THE AGING-RELATED DEACTIVATION OF HIGH SELECTIVITY ETHYLENE OXIDE CATALYSTS**
[54] **PROCEDE DE REDUCTION DE LA DESACTIVATION LIEE AU VIEILLISSEMENT DE CATALYSEURS D'OXYDE D'ETHYLENE A SELECTIVITE ELEVEE**
[72] LEE, WEN -SHENG, US
[72] MCADON, MARK H., US
[72] CALVERLEY, EDWARD M., US
[72] SANTOS CASTRO, VERA P., NL
[71] DOW GLOBAL TECHNOLOGIES LLC, US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/043931)
[87] (WO2023/049057)
[30] US (63/247,483) 2021-09-23

[21] **3,232,524**
[13] A1
[51] **Int.Cl. F42B 5/285 (2006.01) B21K 21/04 (2006.01) B21K 21/14 (2006.01)**
[25] EN
[54] **METHOD AND TOOL FOR PRODUCING A BASE PIECE OF A MULTI-PART CARTRIDGE CASE, BASE PIECE AND CARTRIDGE CASE**
[54] **PROCEDE ET OUTIL DE FABRICATION D'UN BLOC-CULASSE D'UNE DOUILLE DE CARTOUCHE EN PLUSIEURS PARTIES, BLOC-CULASSE ET DOUILLE DE CARTOUCHE**
[72] BIEDERMANN, PETER, CH
[72] GLOOR, FABIAN, CH
[71] RUAG AMMOTEC AG, CH
[85] 2024-03-20
[86] 2022-09-15 (PCT/EP2022/075605)
[87] (WO2023/046559)
[30] DE (10 2021 124 431.5) 2021-09-21

[21] **3,232,525**
[13] A1
[51] **Int.Cl. C08F 210/16 (2006.01)**
[25] EN
[54] **LINEAR LOW DENSITY POLYETHYLENE COPOLYMER**
[54] **COPOLYMERE DE POLYETHYLENE LINEAIRE DE FAIBLE DENSITE**
[72] LIU, BO, US
[72] BORSE, NITIN K., US
[72] CHEN, FENG, CN
[72] MARIOTT, WESLEY R., US
[72] BEILHART, JESSE C., US
[72] LESTER, CHARLES D., US
[71] UNIVATION TECHNOLOGIES, LLC, US
[85] 2024-03-20
[86] 2021-09-23 (PCT/CN2021/119799)
[87] (WO2023/044645)

[21] **3,232,526**
[13] A1
[51] **Int.Cl. G01B 9/02055 (2022.01) G01B 9/02001 (2022.01)**
[25] EN
[54] **OPTICAL BEAMFORMING AND INTERFEROMETRY USING DIGITAL SOURCE MODULATION**
[54] **FORMATION DE FAISCEAU OPTIQUE ET INTERFEROMETRIE UTILISANT UNE MODULATION DE SOURCE NUMERIQUE**
[72] CARLSON, BRENT, CA
[72] HERRIOT, GLEN, CA
[71] NATIONAL RESEARCH COUNCIL OF CANADA, CA
[85] 2024-03-20
[86] 2022-09-19 (PCT/IB2022/058835)
[87] (WO2023/047263)
[30] US (63/246,346) 2021-09-21

[21] **3,232,527**
[13] A1
[51] **Int.Cl. A61K 41/00 (2020.01) A61P 17/02 (2006.01)**
[25] EN
[54] **COMPOSITION AND METHOD FOR PREVENTION AND TREATMENT OF CUTANEOUS RADIATION INJURY**
[54] **COMPOSITIONS ET METHODES DE PREVENTION ET DE TRAITEMENT DE LESION CUTANEE RADIQUE**
[72] HARDY, REGINALD L., US
[72] BRIGELL, MITCHELL, US
[71] RYTHERA THERAPEUTICS, INC., US
[85] 2024-03-20
[86] 2022-09-22 (PCT/US2022/044382)
[87] (WO2023/049262)
[30] US (PCT/US2021/051583) 2021-09-22
[30] US (63/247,234) 2021-09-22
[30] US (63/322,181) 2022-03-21

[21] **3,232,528**
[13] A1
[51] **Int.Cl. H04W 12/06 (2021.01) G06N 20/00 (2019.01) H04W 12/79 (2021.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR AUTHENTICATION OF RF DEVICE**
[54] **PROCEDE ET SYSTEME D'AUTHENTIFICATION DE DISPOSITIF RF**
[72] AYHAN, SINAN, CH
[72] CONUS, JOEL, CH
[71] NAGRAVISION SARL, CH
[85] 2024-03-20
[86] 2022-09-16 (PCT/EP2022/075739)
[87] (WO2023/046581)
[30] EP (21197936.4) 2021-09-21

[21] **3,232,531**
[13] A1
[51] **Int.Cl. C11D 3/40 (2006.01) A61K 8/02 (2006.01) A61L 2/235 (2006.01) A61Q 19/00 (2006.01) C11D 3/48 (2006.01) C11D 7/06 (2006.01) C11D 7/08 (2006.01) C11D 7/50 (2006.01)**
[25] EN
[54] **COLOR-CHANGING SANITIZING COMPOSITIONS AND METHODS OF USE**
[54] **COMPOSITIONS DESINFECTANTES CHANGEANT DE COULEUR ET PROCEDES D'UTILISATION**
[72] SONG, XUEDONG, US
[72] YANG, NING, US
[71] KIMBERLY-CLARK WORLDWIDE, INC., US
[85] 2024-03-20
[86] 2021-09-23 (PCT/US2021/051740)
[87] (WO2023/048715)

[21] **3,232,533**
[13] A1
[51] **Int.Cl. A24F 40/60 (2020.01) A24F 40/40 (2020.01) A24F 40/53 (2020.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] MOLONEY, PATRICK, GB
[72] LUKAN, SEAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-20
[86] 2022-08-18 (PCT/GB2022/052145)
[87] (WO2023/047079)
[30] US (17/448,831) 2021-09-24

[21] **3,232,534**
[13] A1
[51] **Int.Cl. A01N 33/12 (2006.01) A01P 1/00 (2006.01) C11D 1/62 (2006.01) C11D 1/825 (2006.01) C11D 3/43 (2006.01) C11D 3/48 (2006.01)**
[25] EN
[54] **READY TO USE CLEANER/DISINFECTANT COMPOSITION FOR CLEANING MEDICAL INSTRUMENTS**
[54] **COMPOSITION DE NETTOYAGE/DESINFECTION PRETE A L'EMPLOI POUR LE NETTOYAGE D'INSTRUMENTS MEDICAUX**
[72] LINDER, JESSICA SUE HANEY BOESTER, US
[72] STRITTMATTER, ZACHARY LINCOLN, US
[72] KAISER, NANCY-HOPE ELIZABETH, US
[71] AMERICAN STERILIZER COMPANY, US
[85] 2024-03-20
[86] 2022-10-27 (PCT/US2022/047978)
[87] (WO2023/086209)
[30] US (17/524,897) 2021-11-12

[21] **3,232,535**
[13] A1
[51] **Int.Cl. A24B 13/00 (2006.01) A24B 15/30 (2006.01)**
[25] EN
[54] **ACTIVE INGREDIENT DELIVERY SYSTEM**
[54] **SYSTEME DE DISTRIBUTION DE PRINCIPE ACTIF**
[72] JARVENPAA, JANNE, FI
[71] OPES CORPORATION OY, FI
[85] 2024-03-20
[86] 2022-09-20 (PCT/FI2022/050629)
[87] (WO2023/041848)
[30] US (63/246,089) 2021-09-20

[21] **3,232,536**
[13] A1
[51] **Int.Cl. B60K 11/08 (2006.01)**
[25] EN
[54] **GEARED LINKAGE FOR IMPROVED DIAGNOSTICS ON KINEMATIC ASSEMBLY**
[54] **LIAISON A ENGRENAGES POUR DIAGNOSTIC AMELIORE SUR ENSEMBLE CINEMATIQUE**
[72] MANHIRE, JEFFREY B., US
[72] PACE, OLIVER, US
[72] VANDER SLUIS, DANIEL, US
[72] LINDBERG, BRAENDON R., US
[71] MAGNA EXTERIORS INC., CA
[85] 2024-03-20
[86] 2022-10-12 (PCT/US2022/046368)
[87] (WO2023/064327)
[30] US (63/254,702) 2021-10-12

[21] **3,232,538**
[13] A1
[51] **Int.Cl. G03B 9/06 (2021.01)**
[25] EN
[54] **IRIS DIAPHRAGM HAVING A PREDETERMINED SHAPE, WITHOUT SHAPE ROTATION**
[54] **DIAPHRAGME A IRIS A FORME PREDETERMINEE, SANS ROTATION DE FORME**
[72] MONTAGNE, LAURENT, FR
[71] THALES, FR
[85] 2024-03-20
[86] 2022-09-15 (PCT/EP2022/075610)
[87] (WO2023/046561)
[30] FR (FR2109912) 2021-09-21

[21] **3,232,539**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 8/08 (2006.01) A61B 10/00 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR FOCUSED ULTRASOUND-ENABLED LIQUID BIOPSY**
[54] **SYSTEMES ET PROCEDES POUR UNE BIOPSIE LIQUIDE ACTIVEE PAR ULTRASONS FOCALISES**
[72] CHEN, HONG, US
[72] HU, ZHONGTAO, US
[72] XU, LU, US
[72] PACIA, CHRISTOPHER, US
[72] CHIEN, CHIH-YEN, US
[72] LEUTHARDT, ERIC, US
[71] WASHINGTON UNIVERSITY, US
[85] 2024-03-20
[86] 2022-09-26 (PCT/US2022/044718)
[87] (WO2023/049446)
[30] US (63/247,914) 2021-09-24

[21] **3,232,540**
[13] A1
[51] **Int.Cl. H01M 50/271 (2021.01) H01M 10/052 (2010.01) H01M 50/204 (2021.01) H01M 50/284 (2021.01) H01M 10/48 (2006.01)**
[25] EN
[54] **INTRINSICALLY SAFE, REUSABLE, POWER MODULE FOR FIELD DEVICES**
[54] **MODULE DE PUISSANCE REUTILISABLE, A SECURITE INTRINSEQUE POUR DISPOSITIFS DE CHAMP**
[72] NEUHARTH, JARED, US
[72] ROBINSON, CORY, US
[72] JOHNSON, JAMES, US
[72] MARSO, ZACHARY, US
[72] CHHUOY, HUN, US
[72] GINDELE, GREG E., US
[72] POKORNY, MATTHEW, US
[71] ROSEMOUNT INC., US
[85] 2024-03-20
[86] 2022-09-19 (PCT/US2022/043965)
[87] (WO2023/049067)
[30] US (17/483,091) 2021-09-23

[21] **3,232,541**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) A61B 5/01 (2006.01) A61B 5/024 (2006.01) A61B 5/1455 (2006.01) E05B 47/00 (2006.01) E05B 75/00 (2006.01) G08B 21/18 (2006.01)**
[25] EN
[54] **ELECTRONIC RESTRAINT DEVICE**
[54] **DISPOSITIF DE RETENUE ELECTRONIQUE**
[72] GISH, MICHAEL E., US
[72] SMITH, PATRICK W., US
[72] CHUNG, JASPAUL, US
[72] GILMOUR, NICHOLAS R., US
[71] AXON ENTERPRISE, INC., US
[85] 2024-03-20
[86] 2022-09-22 (PCT/US2022/044425)
[87] (WO2023/064079)
[30] US (63/247,274) 2021-09-22

[21] **3,232,542**
[13] A1
[51] **Int.Cl. C01B 39/48 (2006.01) B01J 29/70 (2006.01)**
[25] EN
[54] **EMM-63 ALUMINOSILICATE ZEOLITES, SYNTHESES, AND USES**
[54] **ZEOLITES D'ALUMINOSILICATE EMM-63, SYNTHESES ET UTILISATIONS**
[72] BURTON, ALLEN W., US
[72] VROMAN, HILDA B., US
[71] EXXONMOBIL TECHNOLOGY AND ENGINEERING COMPANY, US
[85] 2024-03-20
[86] 2022-08-26 (PCT/US2022/075486)
[87] (WO2023/049598)
[30] US (63/261,474) 2021-09-22

[21] **3,232,543**
[13] A1
[51] **Int.Cl. A24F 40/40 (2020.01) A24F 40/42 (2020.01) A24F 40/60 (2020.01) F21K 2/06 (2006.01)**
[25] EN
[54] **AEROSOL PROVISION SYSTEM**
[54] **SYSTEME DE FOURNITURE D'AEROSOL**
[72] MOLONEY, PATRICK, GB
[72] LUKAN, SEAN, GB
[71] NICOVENTURES TRADING LIMITED, GB
[85] 2024-03-20
[86] 2022-08-10 (PCT/GB2022/052086)
[87] (WO2023/047078)
[30] US (17/448,823) 2021-09-24

[21] **3,232,544**
[13] A1
[51] **Int.Cl. E04B 9/36 (2006.01)**
[25] EN
[54] **FLUSH MOUNT BAFFLE FOR FINISHED CEILINGS AND WALLS**
[54] **DEFLECTEUR A MONTAGE AFFLEURANT POUR PLAFONDS ET MURS FINIS**
[72] HETTWER, STEPHEN, US
[71] USG CEILINGS PLUS, LLC, US
[85] 2024-03-20
[86] 2022-09-16 (PCT/US2022/076561)
[87] (WO2023/049667)
[30] US (17/482,583) 2021-09-23

[21] **3,232,545**
[13] A1
[51] **Int.Cl. A61F 2/66 (2006.01) A61F 2/54 (2006.01)**
[25] FR
[54] **ARTICULATED ASSEMBLY**
[54] **ENSEMBLE ARTICULE**
[72] BANIEL, GUILLAUME ROGER ALBERT PATRICK, FR
[71] REVIVAL BIONICS, FR
[85] 2024-03-20
[86] 2022-10-10 (PCT/FR2022/051902)
[87] (WO2023/062308)
[30] FR (FR2110831) 2021-10-13

[21] **3,232,546**
[13] A1
[51] **Int.Cl. B04B 11/02 (2006.01) B04B 1/08 (2006.01) B04B 11/06 (2006.01)**
[25] EN
[54] **A CENTRIFUGAL SEPARATOR HAVING A HERMETIC INLET AND OUTLET**
[54] **SEPARATEUR CENTRIFUGE AYANT UNE ENTREE ET UNE SORTIE HERMETIQUES**
[72] BORGSTROM, LEONARD, SE
[71] ALFA LAVAL CORPORATE AB, SE
[85] 2024-03-20
[86] 2022-09-08 (PCT/EP2022/074981)
[87] (WO2023/046495)
[30] EP (21198424.0) 2021-09-23

[21] **3,232,547**
[13] A1
[51] **Int.Cl. A61K 31/13 (2006.01) A61K 31/33 (2006.01) A61K 31/395 (2006.01) A61K 31/4743 (2006.01) C07D 263/54 (2006.01) C07D 263/52 (2006.01)**
[25] EN
[54] **SHORT-ACTING 3,4-METHYLENEDIOXYMETHAMPHETAMINE (MDMA) ANALOGS INCORPORATING BENZOTHIAZOLE**
[54] **ANALOGUES DE 3,4-METHYLENEDIOXYMETHAMPHETAMINE (MDMA) A ACTION COURTE INCORPORANT DU BENZOTHIAZOLE**
[72] HOYER, DENTON W., US
[72] ROSCOW, ROBERT F., US
[72] LING, RONG, CA
[72] GAO, CHUANJUN, CA
[71] MYDECINE INNOVATIONS GROUP INC., US
[85] 2024-03-20
[86] 2023-06-13 (PCT/US2023/025197)
[87] (WO2024/054279)
[30] US (63/404,056) 2022-09-06

[21] **3,232,548**
[13] A1
[51] **Int.Cl. H01M 6/00 (2006.01) H02H 7/18 (2006.01) H04Q 9/00 (2006.01)**
[25] EN
[54] **WIRELESS PROCESS VARIABLE TRANSMITTER WITH BATTERY POWER SOURCE**
[54] **EMETTEUR DE VARIABLE DE PROCESSUS SANS FIL AVEC SOURCE D'ALIMENTATION DE BATTERIE**
[72] WESTFIELD, BRIAN LEE, US
[72] SCHNAARE, THEODORE HENRY, US
[72] ROBINSON, CORY MICHAEL, US
[72] WIENHOLD, NICHOLAS AARON, US
[71] ROSEMOUNT INC, US
[85] 2024-03-20
[86] 2022-05-19 (PCT/US2022/030009)
[87] (WO2023/048777)
[30] US (17/486,112) 2021-09-27

[21] **3,232,549**
[13] A1
[51] **Int.Cl. G09G 3/00 (2006.01)**
[25] EN
[54] **METHOD OF DETECTING DEFECTIVE PIXELS IN ELECTRONIC DISPLAYS**
[54] **PROCEDE DE DETECTION DE PIXELS DEFECTUEUX DANS DES DISPOSITIFS D'AFFICHAGE ELECTRONIQUES**
[72] PIXLEY, ZACHARY, US
[72] DAVIS, NIDHIN, US
[72] PARSONS, MARK, US
[71] COMMUNICATIONS TEST DESIGN, INC., US
[85] 2024-03-20
[86] 2022-06-29 (PCT/US2022/073262)
[87] (WO2023/122359)
[30] US (17/558,870) 2021-12-22

[21] **3,232,551**
[13] A1
[51] **Int.Cl. G01N 30/88 (2006.01) B01D 15/20 (2006.01) G01N 30/86 (2006.01)**
[25] EN
[54] **METHODS FOR MONITORING CHROMATOGRAPHY RESINS DURING CONTINUOUS CHROMATOGRAPHY OPERATION**
[54] **PROCEDES DE SURVEILLANCE DE RESINES DE CHROMATOGRAPHIE PENDANT UN PROCESSUS DE CHROMATOGRAPHIE EN CONTINU**
[72] KERVENNIC, DAMIEN, FR
[72] MOISSONNIER, PHILIPPE, FR
[71] MERCK PATENT GMBH, DE
[85] 2024-03-20
[86] 2022-09-27 (PCT/EP2022/076839)
[87] (WO2023/052358)
[30] EP (21306337.3) 2021-09-28

[21] **3,232,552**
[13] A1
[51] **Int.Cl. H01M 10/056 (2010.01) H01M 10/05 (2010.01)**
[25] EN
[54] **HIGH MOLECULAR WEIGHT FUNCTIONALIZED POLYMERS FOR ELECTROCHEMICAL CELLS**
[54] **POLYMERES FONCTIONNALISES A MASSE MOLECULAIRE ELEVEE POUR CELLULES ELECTROCHIMIQUES**
[72] MOHAMED, ALEXANDER ALI IBRAHIM, US
[72] LEITNER, ANDREW PAUL, US
[71] IONIC MATERIALS, INC., US
[85] 2024-03-20
[86] 2022-09-27 (PCT/US2022/044841)
[87] (WO2023/049494)
[30] US (63/248,639) 2021-09-27

[21] **3,232,553**
[13] A1
[51] **Int.Cl. H04L 9/08 (2006.01) H04L 9/14 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR GENERATING A SECURE SECRET KEY**
[54] **SYSTEME ET METHODE DE GENERATION DE CLE SECRETE SURE**
[72] TRANIER, BENOIT, FR
[72] GAYRARD, JEAN DIDIER, FR
[71] THALES, FR
[85] 2024-03-20
[86] 2022-09-15 (PCT/EP2022/075602)
[87] (WO2023/046557)
[30] FR (FR2110024) 2021-09-23

[21] **3,232,554**
[13] A1
[51] **Int.Cl. F23G 5/00 (2006.01) F23G 5/44 (2006.01)**
[25] EN
[54] **MELTING FURNACE**
[54] **FOUR DE FUSION**
[72] INOUE, SHIGENORI, JP
[72] HOSHO, FUMIKI, JP
[71] KUBOTA CORPORATION, JP
[85] 2024-03-20
[86] 2022-09-29 (PCT/JP2022/036357)
[87] (WO2023/054551)
[30] JP (2021-161339) 2021-09-30

[21] **3,232,555**
[13] A1
[51] **Int.Cl. F04B 39/04 (2006.01) F04B 39/12 (2006.01) F04B 49/10 (2006.01)**
[25] EN
[54] **PRESSURE PACKING FOR A RECIPROCATING PISTON COMPRESSOR WITH BUFFER GAS BARRIER**
[54] **EMBALLAGE SOUS PRESSION POUR UN COMPRESSEUR A PISTON AVEC BARRIERE DE GAZ TAMPON**
[72] BRANDL, ANDREAS, AT
[72] LADD, JOHN WARNER, AT
[72] MARKEY, KARL RICHARD, AT
[72] PRATELLI, GUIDO, AT
[72] RAFFETY, PATRICK JAMES, AT
[71] HOERBIGER WIEN GMBH, AT
[85] 2024-03-20
[86] 2023-05-05 (PCT/EP2023/061889)
[87] (WO2023/217640)
[30] US (17/740,323) 2022-05-09

[21] **3,232,556**
[13] A1
[51] **Int.Cl. C12Q 1/68 (2018.01)**
[25] EN
[54] **IMPROVED METHODS FOR DETECTING AND TREATING ENDOMETRIOSIS**
[54] **PROCEDES AMELIORES DE DETECTION ET DE TRAITEMENT DE L'ENDOMETRIOSE**
[72] METZ, CHRISTINE, US
[72] GREGERSEN, PETER K., US
[71] THE FEINSTEIN INSTITUTE FOR MEDICAL RESEARCH, US
[85] 2024-03-20
[86] 2022-12-05 (PCT/US2022/051821)
[87] (WO2023/107375)
[30] US (63/286,705) 2021-12-07
[30] US (63/308,281) 2022-02-09

[21] **3,232,557**
[13] A1
[51] **Int.Cl. C07K 14/705 (2006.01) A61K 38/47 (2006.01)**
[25] EN
[54] **BIOLOGICALLY ACTIVE COLLAGEN HYBRIDIZING PEPTIDES**
[54] **PEPTIDES D'HYBRIDATION DE COLLAGENE BIOLOGIQUEMENT ACTIFS**
[72] BENNINK, LUCAS, US
[72] KIRKNESS, MICHAEL, US
[72] KESSLER, JULIAN, US
[72] YU, MICHAEL, US
[71] 3HELIX, INC., US
[85] 2024-03-20
[86] 2022-10-07 (PCT/US2022/077730)
[87] (WO2023/060218)
[30] US (63/253,473) 2021-10-07

[21] **3,232,558**
[13] A1
[51] **Int.Cl. C07J 1/00 (2006.01)**
[25] EN
[54] **PROCESS FOR PREPARING (15ALPHA,16ALPHA,17 ETA)-ESTRA-1,3,5(10)-TRIENE-3,15,16,17-TETROL (ESTETROL) MONOHYDRATE**
[54] **PROCEDE DE PREPARATION DU MONOHYDRATE DE (15ALPHA,16ALPHA,17ETA)-ESTRA-1,3,5-(10)-TRIENE-3,15,16,17-TETROL (ESTETROL)**
[72] LENNA, ROBERTO, IT
[72] FASANA, ANDREA, IT
[71] INDUSTRIALE CHIMICA S.R.L., IT
[85] 2024-03-20
[86] 2021-10-01 (PCT/EP2021/077139)
[87] (WO2023/051937)

[21] **3,232,559**
[13] A1
[51] **Int.Cl. A61B 17/90 (2006.01) A61B 34/10 (2016.01) A61B 17/15 (2006.01) A61B 17/17 (2006.01)**
[25] EN
[54] **ORTHOPAEDIC FUSION PLANNING SYSTEMS**
[54] **SYSTEMES DE PLANIFICATION DE FUSION ORTHOPEDIQUE**
[72] METCALFE, NICK, US
[72] DOODY, SCOTT WILLIAM, US
[72] GARLOCK, ADAM, US
[71] ARTHREX, INC., US
[85] 2024-03-20
[86] 2022-09-15 (PCT/US2022/043590)
[87] (WO2023/049009)
[30] US (17/482,103) 2021-09-22

[21] **3,232,560**
[13] A1
[51] **Int.Cl. B22F 1/00 (2022.01) C23C 4/131 (2016.01) B23K 35/22 (2006.01) B23K 35/368 (2006.01) C22C 1/05 (2006.01) C22C 29/00 (2006.01) B23K 35/40 (2006.01)**
[25] EN
[54] **COMPOSITE CORED WIRE CLADDING**
[54] **GAINE DE FIL FOURRE COMPOSITE**
[72] ANTONY, LEO, US
[71] SCM METAL PRODUCTS, INC., US
[85] 2024-03-20
[86] 2022-09-07 (PCT/US2022/042750)
[87] (WO2023/048939)
[30] US (63/248,885) 2021-09-27
[30] US (17/855,061) 2022-06-30

[21] **3,232,561**
[13] A1
[51] **Int.Cl. A61L 27/54 (2006.01) A61K 35/32 (2015.01) A61L 27/26 (2006.01) A61L 27/58 (2006.01) A61L 27/10 (2006.01) A61L 27/12 (2006.01)**
[25] EN
[54] **EXOSOME BONE GRAFT SYSTEMS, PRODUCTS AND METHODS**
[54] **SYSTEMES, PRODUITS ET METHODES POUR GREFFE OSSEUSE D'EXOSOMES**
[72] JANANI, KEYON, US
[72] GHALILI, BABAK, US
[72] SCHERP, PETER, US
[72] BORJA, JOHN, US
[71] GHALILI, BABAK, US
[85] 2024-03-20
[86] 2022-09-20 (PCT/US2022/044102)
[87] (WO2023/049105)
[30] US (63/246,930) 2021-09-22

[21] **3,232,562**
[13] A1
[51] **Int.Cl. A61K 47/69 (2017.01) A61P 31/12 (2006.01)**
[25] EN
[54] **NUCLEIC ACID SENSOR AGONIST COMPOSITIONS AND USES THEREOF**
[54] **COMPOSITIONS AGONISTES DE CAPTEUR D'ACIDE NUCLEIQUE ET LEURS UTILISATIONS**
[72] DUTHIE, MALCOLM S., US
[72] BERUBE, BRYAN, US
[72] LEAL, JOSEPH, US
[72] KHANDHAR, AMIT PRAFUL, US
[72] KIM, JIHO, US
[72] CARTER, DARRICK ALBERT, US
[72] BERGLUND, LARS PETER ASKEL, US
[71] HDT BIO CORP., US
[85] 2024-03-20
[86] 2022-09-21 (PCT/US2022/076821)
[87] (WO2023/049777)
[30] US (63/246,880) 2021-09-22
[30] US (63/302,150) 2022-01-24

[21] **3,232,563**
[13] A1
[51] **Int.Cl. G06F 40/166 (2020.01) G06F 40/10 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AUTOMATED INTUITIVE DOCUMENT EDITING**
[54] **SYSTEMES ET PROCEDES POUR L'EDITION AUTOMATISEE DE DOCUMENTS INTUITIFS**
[72] PATEL, HENAL M., US
[71] DOCJURIS INC., US
[85] 2024-03-20
[86] 2022-11-03 (PCT/US2022/048894)
[87] (WO2023/091310)
[30] US (63/280,273) 2021-11-17

[21] **3,232,564**
[13] A1
[51] **Int.Cl. A61K 8/06 (2006.01) A61K 8/9783 (2017.01) A61K 8/31 (2006.01) A61K 8/34 (2006.01) A61K 8/37 (2006.01) A61K 8/60 (2006.01) A61K 8/73 (2006.01) A61K 8/81 (2006.01) A61K 8/894 (2006.01)**
[25] EN
[54] **PERSONAL CARE COMPOSITIONS HAVING ENHANCED ANTIOXIDANT PERFORMANCE**
[54] **COMPOSITIONS DE SOINS PERSONNELS AYANT UNE EFFICACITE ANTIOXYDANTE AMELIOREE**
[72] ROJAS, DIANA, US
[72] GRANT, JAMES, US
[72] WOJTOWICZ, KAMIL, US
[72] RUFFENACH, KELLY, US
[72] RUSSELL, MICHAEL, US
[72] VONA, SAMUEL, US
[72] SAVARINO, SMARANDA, US
[71] EDGEWELL PERSONAL CARE BRANDS, LLC, US
[85] 2024-03-20
[86] 2022-09-23 (PCT/US2022/076900)
[87] (WO2023/049822)
[30] US (63/247,490) 2021-09-23

[21] **3,232,565**
[13] A1
[51] **Int.Cl. A47B 13/08 (2006.01) A47B 33/00 (2006.01) A47B 37/00 (2006.01) A47L 15/00 (2006.01) A47L 15/42 (2006.01) B25B 11/00 (2006.01)**
[25] EN
[54] **DISHWASHER DINING TABLE**
[54] **TABLE A DINER DE LAVE-VAISSELLE**
[72] CHEN, SONG, NZ
[71] CGECHEN LIMITED, NZ
[85] 2024-03-20
[86] 2022-09-26 (PCT/NZ2022/050125)
[87] (WO2023/048583)
[30] NZ (780668) 2021-09-27

[21] **3,232,566**
[13] A1
[51] **Int.Cl. A61K 9/14 (2006.01) B82Y 5/00 (2011.01) A61K 9/19 (2006.01) A61K 48/00 (2006.01)**
[25] EN
[54] **DRIED NANOPARTICLE COMPOSITIONS**
[54] **COMPOSITIONS DE NANOPARTICULES SECHEES**
[72] REED, STEVEN GREGORY, US
[72] CARTER, DARRICK ALBERT, US
[72] KHANDHAR, AMIT PRAFUL, US
[71] HDT BIO CORP., US
[85] 2024-03-20
[86] 2022-01-24 (PCT/US2022/013508)
[87] (WO2023/048758)
[30] US (63/247,172) 2021-09-22
[30] US (63/297,449) 2022-01-07

[21] **3,232,567**
[13] A1
[51] **Int.Cl. G01K 1/08 (2021.01) G01K 1/14 (2021.01) G01K 7/16 (2006.01)**
[25] EN
[54] **TEMPERATURE PROBE**
[54] **SONDE DE TEMPERATURE**
[72] REUVERS, JOHN L., US
[71] ROSEMOUNT INC, US
[85] 2024-03-20
[86] 2022-09-22 (PCT/US2022/044359)
[87] (WO2023/055642)
[30] US (17/487,750) 2021-09-28

[21] **3,232,568**
[13] A1
[51] **Int.Cl. G06N 3/04 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR IMPLICIT ATTENTION WITH SUB-QUADRATIC COMPLEXITY IN ARTIFICIAL NEURAL NETWORKS**
[54] **PROCEDES ET SYSTEMES POUR UNE ATTENTION IMPLICITE AVEC UNE COMPLEXITE SOUS-QUADRATIQUE DANS DES RESEAUX DE NEURONES ARTIFICIELS**
[72] CHILKURI, NARSIMHA, CA
[72] HUNSBERGER, ERIC, CA
[72] VOELKER, AARON R., CA
[72] ELIASMITH, CHRISTOPHER DAVID, CA
[71] APPLIED BRAIN RESEARCH INC., CA
[85] 2024-03-20
[86] 2022-09-20 (PCT/CA2022/051395)
[87] (WO2023/039681)
[30] US (63/246,174) 2021-09-20

[21] **3,232,570**
[13] A1
[51] **Int.Cl. E04F 15/02 (2006.01) E04F 21/00 (2006.01) E04F 21/22 (2006.01)**
[25] EN
[54] **TILE LEVELLING DEVICE**
[54] **DISPOSITIF DE MISE A NIVEAU DE TUILES**
[72] CIPRIANI, ZENO, IT
[71] DAKOTA GROUP S.A.S. DI ZENO CIPRIANI E C., IT
[85] 2024-03-20
[86] 2022-09-12 (PCT/IB2022/058570)
[87] (WO2023/047242)
[30] IT (102021000024488) 2021-09-23

[21] **3,232,571**
[13] A1
[51] **Int.Cl. H01Q 3/26 (2006.01) H04B 7/024 (2017.01) H01Q 21/29 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PHASE MONOPULSE BEAM POINTING**
[54] **SYSTEMES ET PROCEDES DE POINTAGE DE FAISCEAU MONOPULSE DE PHASE**
[72] WILKERSON, JAMES ALLAN, US
[71] SMITHS INTERCONNECT, INC., US
[85] 2024-03-20
[86] 2022-09-29 (PCT/US2022/045138)
[87] (WO2023/177420)
[30] US (63/250,660) 2021-09-30

[21] **3,232,572**
[13] A1
[51] **Int.Cl. B01D 53/78 (2006.01) B01D 53/62 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR GAS-LIQUID CONTACTORS FOR RAPID CARBON CAPTURE**
[54] **SYSTEMES ET PROCEDES POUR CONTACTEURS GAZ-LIQUIDE POUR CAPTURE RAPIDE DE CARBONE**
[72] XIANG, CHENGXIANG, US
[72] ARDO, SHANE, US
[72] SCHULTE, LEANNA, US
[72] ATWATER, HARRY A., US
[72] CHEN, ZEJIE, US
[72] BENDER, ANASTASIYA, US
[72] DIGDAYA, IBADILLAH A., US
[71] CALIFORNIA INSTITUTE OF TECHNOLOGY, US
[71] THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, US
[85] 2024-03-20
[86] 2022-09-20 (PCT/US2022/076738)
[87] (WO2023/044508)
[30] US (63/246,244) 2021-09-20

[21] **3,232,573**
[13] A1
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/07 (2010.01) C12M 3/04 (2006.01) C12N 13/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR MAKING CELL SHEETS**
[54] **DISPOSITIF ET PROCEDE POUR LA FABRICATION DE FEUILLETS CELLULAIRES**
[72] SHAHIN-SHAMSABADI, ALIREZA, CA
[71] CAROMEATS INC., CA
[85] 2024-03-20
[86] 2023-06-07 (PCT/CA2023/050779)
[87] (WO2023/240336)
[30] US (17/838,284) 2022-06-13
[30] US (17/882,693) 2022-08-08
[30] US (63/504,774) 2023-05-29

[21] **3,232,574**
[13] A1
[51] **Int.Cl. C08F 279/04 (2006.01) C08C 19/22 (2006.01) C08L 55/02 (2006.01)**
[25] EN
[54] **RUBBER-REINFORCED VINYLAROMATIC (CO)POLYMERS AND PROCESS FOR THE PREPARATION THEREOF**
[54] **(CO)POLYMERES VINYLAROMATIQUES RENFORCES PAR DU CAOUTCHOUC ET PROCEDE POUR LEUR PREPARATION**
[72] CHIEZZI, LEONARDO, IT
[72] FIOROTTO, NICOLA, IT
[72] CASTELLANI, LEONARDO, IT
[71] VERSALIS S.P.A., IT
[85] 2024-03-20
[86] 2022-12-05 (PCT/IB2022/061776)
[87] (WO2023/105386)
[30] IT (102021000031067) 2021-12-10

[21] **3,232,575**
[13] A1
[51] **Int.Cl. H02K 1/18 (2006.01) H02K 5/16 (2006.01)**
[25] EN
[54] **ELECTRIC MACHINE COMPRISING A HOUSING**
[54] **MACHINE ELECTRIQUE POURVUE D'UN BOITIER**
[72] CEPEK, THOMAS, DE
[71] INNOMOTICS GMBH, DE
[85] 2024-03-20
[86] 2022-09-30 (PCT/EP2022/077353)
[87] (WO2023/052620)
[30] EP (21200260.4) 2021-09-30

[21] **3,232,576**
[13] A1
[51] **Int.Cl. G16H 10/60 (2018.01) G06F 40/20 (2020.01) G06F 40/00 (2020.01)**
[25] EN
[54] **CREATING MULTIPLE PRIORITIZED CLINICAL SUMMARIES USING ARTIFICIAL INTELLIGENCE**
[54] **CREATION DE MULTIPLES RESUMES CLINIQUES CLASSES PAR ORDRE DE PRIORITE A L'AIDE D'UNE INTELLIGENCE ARTIFICIELLE**
[72] AMARASINGHAM, RUBENDRAN, US
[72] CHEN, YUKUN, US
[72] ATSINA, KOMLI-KOFI JR., US
[72] PHILIP, SHERENE, US
[72] KANG, HONG, US
[71] PIECES TECHNOLOGIES, INC., US
[85] 2024-03-20
[86] 2022-10-04 (PCT/US2022/077542)
[87] (WO2023/060087)
[30] US (63/252,518) 2021-10-05
[30] US (17/959,484) 2022-10-04

[21] **3,232,577**
[13] A1
[51] **Int.Cl. A61K 31/122 (2006.01) A61K 31/137 (2006.01) A61P 25/00 (2006.01) A61P 25/28 (2006.01) A61P 25/16 (2006.01)**
[25] EN
[54] **COMBINATION THERAPY FOR NEURODEGENERATIVE DISEASES**
[54] **POLYTHERAPIE DESTINEE A DES MALADIES NEURODEGENERATIVES**
[72] SHTILBANS, ALEXANDER, US
[71] ALETA NEUROSCIENCE, LLC, US
[85] 2024-03-20
[86] 2022-09-19 (PCT/IB2022/058850)
[87] (WO2023/042178)
[30] US (63/261,379) 2021-09-20
[30] US (63/264,035) 2021-11-13

[21] **3,232,578**
[13] A1
[51] **Int.Cl. A61B 5/00 (2006.01) G06T 7/90 (2017.01) G06F 16/9535 (2019.01) G06V 10/22 (2022.01) G06Q 30/0601 (2023.01) A45D 44/00 (2006.01) G01J 3/50 (2006.01)**
[25] EN
[54] **MATCHING COSMETICS AND SKIN CARE PRODUCTS BASED ON SKIN TONE AND SKIN CONDITION SCANNING**
[54] **MISE EN CORRESPONDANCE DE PRODUITS COSMETIQUES ET PRODUITS DE SOIN DE LA PEAU BASEE SUR LE BALAYAGE DU TEINT ET DE L'ETAT DE LA PEAU**
[72] TENDULKAR, PRASAD, US
[72] MENSAH, NELLY, US
[72] TERESA, ANNA, US
[72] BERTONE, JILLIAN, US
[72] ZHU, LISA, US
[72] STOKES, JENNIFER, US
[72] LIUJANTO, WITONO, US
[72] OELCKERS, AARON, US
[72] MCCOTTER, MARC, US
[72] HADDAR, HARSHA, US
[72] KAVANAGH, FIONA, US
[72] ADIRAJU, AMIT, US
[72] JANARDHAN, NAROJU, US
[71] SEPHORA USA, INC., US
[85] 2024-03-07
[86] 2022-09-09 (PCT/US2022/043155)
[87] (WO2023/039222)
[30] US (63/261,060) 2021-09-09

[21] **3,232,579**
[13] A1
[51] **Int.Cl. G06N 10/20 (2022.01) G06N 10/40 (2022.01) G06N 10/70 (2022.01)**
[25] EN
[54] **CAT QUBIT CONTAINMENT DEVICE, Z GATE AND CNOT GATE USING THIS DEVICE**
[54] **DISPOSITIF DE CONFINEMENT POUR QUBIT DE CHAT, PORTE Z ET PORTE CNOT UTILISANT CE DISPOSITIF**
[72] GAUTIER, RONAN, FR
[72] SARLETTE, ALAIN, FR
[72] MIRRAHIMI, MAZYAR, FR
[71] INSTITUT NATIONAL DE RECHERCHE EN INFORMATIQUE ET EN AUTOMATIQUE, FR
[85] 2024-03-14
[86] 2022-10-03 (PCT/FR2022/051870)
[87] (WO2023/067260)
[30] FR (FR2111223) 2021-10-21

[21] **3,232,580**
[13] A1
[51] **Int.Cl. F41A 17/06 (2006.01) G07C 9/32 (2020.01) H04W 12/40 (2021.01) A47B 81/00 (2006.01) G07F 17/10 (2006.01)**
[25] EN
[54] **SYSTEM FOR WEAPON IDENTIFICATION, LOCKING AND ADMINISTRATION**
[54] **SYSTEME D'IDENTIFICATION, DE VERROUILLAGE ET D'ADMINISTRATION DES ARMES**
[72] SOROS, ZSOLT, HU
[71] SOROS, ZSOLT, HU
[85] 2024-03-14
[86] 2022-02-17 (PCT/HU2022/000002)
[87] (WO2023/041946)
[30] HU (U2100167) 2021-09-16

[21] **3,232,581**
[13] A1
[51] **Int.Cl. B03D 1/02 (2006.01) C22B 3/20 (2006.01) C22B 15/00 (2006.01) B01D 21/00 (2006.01) B01D 45/00 (2006.01)**
[25] EN
[54] **INCREASING FLOTATION RECOVERY AND THROUGHPUT**
[54] **AUGMENTATION DE LA RECUPERATION ET DU DEBIT DE FLOTTATION**
[72] YOON, ROE-HOAN, US
[72] HUANG, KAIWU, US
[72] GUPTA, MOHIT, US
[72] NOBLE, CHRISTOPHER AARON, US
[71] VIRGINIA TECH INTELLECTUAL PROPERTIES INC., US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/076622)
[87] (WO2023/044464)
[30] US (63/244,926) 2021-09-16
[30] US (63/244,935) 2021-09-16

[21] **3,232,582**
[13] A1
[51] **Int.Cl. H04N 21/458 (2011.01) H04N 21/2668 (2011.01) H04N 21/8549 (2011.01)**
[25] EN
[54] **METHODS AND SYSTEMS TO PROVIDE A PLAYLIST FOR SIMULTANEOUS PRESENTATION OF A PLURALITY OF MEDIA ASSETS**
[54] **PROCEDES ET SYSTEMES SERVANT A LA MISE EN □UVRE D'UNE LISTE DE DIFFUSION POUR UNE PRESENTATION SIMULTANEE D'UNE PLURALITE DE CONTENUS MULTIMEDIAS**
[72] KALATHURU, HARSHAVARDHAN REDDY, IN
[72] CHANDRASHEKAR, PADMASSRI, IN
[72] PAREKH, JAYSHIL, IN
[72] EMMANUEL, DAINA, IN
[72] ARSAM, RAMESH, IN
[72] KRISHNAMOORTHI, SANTHIYA, IN
[72] GUPTA, VAIBHAV, IN
[72] GUPTA, ASHISH, IN
[72] KARUPPASAMY, SENTHIL KUMAR, IN
[72] KUMAR, ANIL, IN
[72] HARB, REDA, US
[71] ROVI GUIDES, INC., US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/076552)
[87] (WO2023/044420)
[30] US (17/478,473) 2021-09-17
[30] US (17/478,526) 2021-09-17
[30] US (17/478,538) 2021-09-17

[21] **3,232,583**
[13] A1
[51] **Int.Cl. A61M 5/145 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR CONTROLLING PULSE MODE PUMPING IN INFUSION SYSTEMS**
[54] **SYSTEMES ET PROCEDES DE COMMANDE DE POMPAGE EN MODE PULSE DANS DES SYSTEMES DE PERFUSION**
[72] FISCHER, STEVEN WARD, US
[72] WALLACE, MORRIS, US
[72] CHEN, YE, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-03-14
[86] 2022-09-28 (PCT/US2022/045034)
[87] (WO2023/055798)
[30] US (63/249,302) 2021-09-28

[21] **3,232,584**
[13] A1
[51] **Int.Cl. G16H 20/17 (2018.01) G16H 40/40 (2018.01) G16H 40/60 (2018.01) A61M 5/142 (2006.01)**
[25] EN
[54] **RACK-PUMP CHARGING PRIORITIZATION IN MULTI-PUMP ASSEMBLY**
[54] **PRIORISATION DE CHARGE DE POMPE A CREMAILLERE DANS UN ENSEMBLE MULTI-POMPE**
[72] SLABY, JIRI, US
[72] BOJAN, PETER, US
[72] HEXAMER, AARON, US
[71] BAXTER INTERNATIONAL INC., US
[71] BAXTER HEALTHCARE SA, CH
[85] 2024-03-14
[86] 2022-09-28 (PCT/US2022/045026)
[87] (WO2023/055792)
[30] US (63/249,259) 2021-09-28

[21] **3,232,585**
[13] A1
[51] **Int.Cl. B30B 1/18 (2006.01) F16H 25/24 (2006.01) B30B 15/12 (2006.01)**
[25] EN
[54] **LINEAR-ACTUATED PRESS MACHINE HAVING MULTIPLE MOTORS AND CLUTCH SYSTEM FOR MULTI-SPEED DRIVE FUNCTIONALITY**
[54] **PRESSE A ACTIONNEMENT LINEAIRE COMPORTANT DE MULTIPLES MOTEURS ET SYSTEME D'EMBRAYAGE POUR UNE FONCTIONNALITE D'ENTRAINEMENT A PLUSIEURS VITESSES**
[72] DEBUS, JEFFREY E., US
[72] HARRELSON, DARRELL B., US
[71] PDINNOVATIVE LLC, US
[85] 2024-03-14
[86] 2022-09-20 (PCT/US2022/044092)
[87] (WO2023/049099)
[30] US (63/261,453) 2021-09-21
[30] US (63/263,603) 2021-11-05
[30] US (17/806,266) 2022-06-09
[30] US (17/806,268) 2022-06-09

[21] **3,232,586**
[13] A1
[51] **Int.Cl. G01R 19/02 (2006.01) G01D 21/00 (2006.01) G01R 19/00 (2006.01) G01R 19/17 (2006.01) G01R 25/00 (2006.01) G01R 31/26 (2020.01) G01R 31/28 (2006.01) G01R 35/02 (2006.01)**
[25] EN
[54] **SELF-CORRECTING ELECTRICAL CURRENT MEASURING DEVICES**
[54] **DISPOSITIFS DE MESURE DE COURANT ELECTRIQUE A CORRECTION AUTOMATIQUE**
[72] AUSTIN, MICHEAL M., US
[71] VUTILITI, INC., US
[85] 2024-03-14
[86] 2022-09-19 (PCT/US2022/043988)
[87] (WO2023/044107)
[30] US (63/261,352) 2021-09-18
[30] US (17/947,031) 2022-09-16

[21] **3,232,587**
[13] A1
[51] **Int.Cl. C12N 5/00 (2006.01) C12N 5/074 (2010.01) C12N 5/079 (2010.01) C12N 5/0797 (2010.01) A61K 35/30 (2015.01) A61K 35/32 (2015.01)**
[25] EN
[54] **MULTI-TISSUE ORGANOID PRODUCTS AND METHODS**
[54] **PRODUITS ORGANOIDES MULTITISSULAIRES ET PROCEDES**
[72] O'BRIEN, TIMOTHY D., US
[72] LINDBORG, BETH, US
[72] VEGOE, AMANDA, US
[72] CHAI, YI WEN, US
[72] LI, MANCI, US
[71] REGENTS OF THE UNIVERSITY OF MINNESOTA, US
[85] 2024-03-14
[86] 2022-09-16 (PCT/US2022/043839)
[87] (WO2023/044032)
[30] US (63/244,991) 2021-09-16

[21] **3,232,589**
[13] A1
[51] **Int.Cl. C01B 3/36 (2006.01) F23D 14/24 (2006.01)**
[25] EN
[54] **REACTOR FOR PARTIAL OXIDATION OF HYDROCARBONS**
[54] **REACTEUR POUR L'OXYDATION PARTIELLE D'HYDROCARBURES**
[72] ZANICHELLI, LUCA, IT
[72] COLMEGNA, GIACOMO, CH
[71] CASALE SA, CH
[85] 2024-03-21
[86] 2022-09-30 (PCT/EP2022/077387)
[87] (WO2023/061786)
[30] EP (21201820.4) 2021-10-11

[21] **3,232,591**
[13] A1
[51] **Int.Cl. C12N 15/82 (2006.01) C07K 14/415 (2006.01)**
[25] EN
[54] **PROTEINS FOR REGULATION OF SYMBIOTIC INFECTION AND ASSOCIATED REGULATORY ELEMENTS**
[54] **PROTEINES POUR LA REGULATION D'UNE INFECTION SYMBIOTIQUE ET ELEMENTS REGULATEURS ASSOCIES**
[72] OTT, THOMAS, DE
[72] SIUKSTAITE, LINA, DE
[72] SU, CHAO, DE
[72] ROMER, WINFRIED, DE
[71] UNIVERSITY OF FREIBURG, DE
[85] 2024-03-14
[86] 2022-09-16 (PCT/IB2022/000523)
[87] (WO2023/041983)
[30] US (63/245,662) 2021-09-17

[21] **3,232,592**
[13] A1
[51] **Int.Cl. H04L 9/40 (2022.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR ASSESSING AND ENHANCING CYBERSECURITY OF A NETWORK**
[54] **PROCEDES ET SYSTEMES D'EVALUATION ET D'AMELIORATION DE LA CYBERSECURITE D'UN RESEAU**
[72] VERHAPPEN, IAN, CA
[72] GRIEG, SCOTT DOUG, CA
[71] WILLOWGLEN SYSTEMS INC., CA
[85] 2024-03-15
[86] 2022-09-16 (PCT/CA2022/051380)
[87] (WO2023/039676)
[30] US (63/245,621) 2021-09-17

[21] **3,232,593**
[13] A1
[51] **Int.Cl. A61K 35/12 (2015.01) C12N 15/113 (2010.01) C07K 14/705 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR MULTIPLEX BASE EDITING IN HEMATOPOIETIC CELLS**
[54] **COMPOSITIONS ET PROCEDES D'EDITION DE BASE MULTIPLEX DANS DES CELLULES HEMATOPOIETIQUES**
[72] LYDEARD, JOHN, US
[72] FALLA, ALEJANDRA, US
[72] PAIK, ELIZABETH, US
[72] HAZELBAKER, DANE, US
[72] CHAKRABORTY, TIRTHA, US
[71] VOR BIOPHARMA INC., US
[85] 2024-03-14
[86] 2022-09-14 (PCT/US2022/043557)
[87] (WO2023/043858)
[30] US (63/244,219) 2021-09-14
[30] US (63/278,375) 2021-11-11
[30] US (63/343,408) 2022-05-18

[21] **3,232,594**
[13] A1
[51] **Int.Cl. H01H 85/06 (2006.01)**
[25] EN
[54] **PORTABLE GROUND FAULT CIRCUIT INTERRUPTER AND/OR ARC FAULT CIRCUITY INTERRUPTER AND METHOD OF OPERATING THE SAME**
[54] **DISJONCTEUR DE FUITE DE TERRE PORTATIF ET/OU DISJONCTEUR COMBINE ANTI-ARC ET PROCEDE DE FONCTIONNEMENT ASSOCIE**
[72] PADRO, KENNY, US
[72] BROWNER, JOHN E., US
[72] PEARCE, BRANDON, US
[72] DI VITA, ANTONIO, US
[72] VARNEY, MATTHEW JARED, US
[72] MILLER, WILLIAM VERNON, US
[72] MEADY, JOSEPH MICHAEL, US
[72] PECK, DAVID, US
[71] HUBBELL INCORPORATED, US
[85] 2024-03-14
[86] 2022-09-07 (PCT/US2022/042767)
[87] (WO2023/038979)
[30] US (63/241,721) 2021-09-08

[21] **3,232,595**
[13] A1
[51] **Int.Cl. E21B 43/08 (2006.01) E21B 43/10 (2006.01)**
[25] EN
[54] **SHROUD-EMBEDDED CONTROL LINE CLAMP**
[54] **SERRE-CABLE DE LIGNE DE COMMANDE INTEGRE DANS UNE ENVELOPPE**
[72] LANGLAIS, MICHAEL DEAN, US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-14
[86] 2022-08-30 (PCT/US2022/042030)
[87] (WO2023/043611)
[30] US (63/261,303) 2021-09-17

[21] **3,232,596**
[13] A1
[51] **Int.Cl. G06V 10/25 (2022.01) G06V 10/26 (2022.01) G06V 10/42 (2022.01) G06V 10/44 (2022.01) G06V 10/70 (2022.01) G06V 10/75 (2022.01) G06V 20/69 (2022.01) A61Q 19/00 (2006.01) G01N 33/50 (2006.01) G06T 7/00 (2017.01)**
[25] EN
[54] **ANALYSIS AND CHARACTERIZATION OF EPITHELIAL TISSUE STRUCTURE**
[54] **ANALYSE ET CARACTERISATION DE STRUCTURE DE TISSU EPITHELIAL**
[72] DESCOMBES, XAVIER, FR
[72] LBOUKILI, IMANE, FR
[72] ODDOS, THIERRY, FR
[72] STAMATAS, GEORGIOS N., FR
[71] JOHNSON & JOHNSON CONSUMER INC., US
[71] CENTRA INRIA DE L'UNIVERSITE COTE D'AZUR, FR
[85] 2024-03-14
[86] 2022-09-16 (PCT/IB2022/058769)
[87] (WO2023/042145)
[30] US (63/244,981) 2021-09-16
[30] US (17/943,477) 2022-09-13

[21] **3,232,597**
[13] A1
[51] **Int.Cl. H04W 56/00 (2009.01) H04W 24/10 (2009.01) H04W 74/08 (2024.01) H04W 72/04 (2023.01)**
[25] EN
[54] **METHODS AND SYSTEMS FOR REFERENCE SIGNALING IN WIRELESS NETWORKS**
[54] **PROCEDES ET SYSTEMES DE SIGNALISATION DE REFERENCE DANS DES RESEAUX SANS FIL**
[72] QIU, ZHIHONG, CN
[72] HUANG, HE, CN
[72] GAO, YUAN, CN
[71] ZTE CORPORATION, CN
[85] 2024-03-15
[86] 2021-10-21 (PCT/CN2021/125215)
[87] (WO2023/065204)

[21] **3,232,599**
[13] A1
[51] **Int.Cl. A61K 39/12 (2006.01) A61P 31/16 (2006.01)**
[25] EN
[54] **VACCINE COMPOSITIONS**
[54] **COMPOSITIONS VACCINALES**
[72] LATA, JAMES PAUL, US
[72] WARFIELD, KELLY LYN, US
[72] LACY, MICHAEL JOSEPH, US
[72] LOOK, JEE LOON, US
[72] RUIZ, CHRISTIAN FERNANDO, US
[71] EMERGENT PRODUCT DEVELOPMENT GAITHERSBURG INC., US
[85] 2024-03-21
[86] 2022-09-15 (PCT/US2022/076494)
[87] (WO2023/044388)
[30] US (63/244,931) 2021-09-16

[21] **3,232,600**
[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) C12Q 1/6886 (2018.01) A61K 45/06 (2006.01)**
[25] EN
[54] **CYP11A1 INHIBITOR FOR USE IN THE TREATMENT OF PROSTATE CANCER**
[54] **INHIBITEUR DE CYP11A1 DESTINE A ETRE UTILISE DANS LE TRAITEMENT DU CANCER DE LA PROSTATE**
[72] IKONEN, TARJA, FI
[72] VUORELA, ANNAMARI, FI
[71] ORION CORPORATION, FI
[85] 2024-03-21
[86] 2022-09-27 (PCT/FI2022/050646)
[87] (WO2023/052682)
[30] FI (20217146) 2021-09-28

[21] **3,232,602**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) A61K 9/00 (2006.01) A61K 31/395 (2006.01) A61K 47/10 (2017.01) A61K 47/36 (2006.01) A61K 47/38 (2006.01) A61P 1/00 (2006.01)**
[25] EN
[54] **AN IN-SITU GELLING ENEMA OF RIFAMYCIN FOR TREATING POUCHITIS AND DISTAL ULCERATIVE COLITIS**
[54] **LAVEMENT A GELIFICATION IN SITU DE LA RIFAMYCINE POUR LE TRAITEMENT DE LA POCHITE ET DE LA RECTOCOLITE HEMORRAGIQUE DISTALE**
[72] GERLONI, MARA, US
[72] MACELLONI, CRISTINA, IT
[72] ROSETTE, CARIDAD, US
[72] LONGO, LUIGI, IT
[71] COSMO TECHNOLOGIES LTD, IE
[85] 2024-03-15
[86] 2022-10-05 (PCT/EP2022/077675)
[87] (WO2023/057499)
[30] US (63/252,315) 2021-10-05
[30] EP (21203010.0) 2021-10-15

[21] **3,232,603**
[13] A1
[51] **Int.Cl. H01M 4/36 (2006.01) H01M 4/525 (2010.01) C01G 53/00 (2006.01) H01M 4/02 (2006.01)**
[25] EN
[54] **POSITIVE ELETRODE ACTIVE MATERIAL AND METHOD FOR PRODUCING THE SAME**
[54] **MATERIAU ACTIF DE CATHODE ET SON PROCEDE DE PREPARATION**
[72] LEE, EUNG JU, KR
[72] BAEK, HYEON HUI, KR
[72] JEONG, JONG SEOK, KR
[72] KIM, JONG PIL, KR
[72] JUNG, WON SIG, KR
[72] RHEE, TAE YOUNG, KR
[72] CHOI, HWAN YOUNG, KR
[71] LG CHEM, LTD., KR
[85] 2024-03-14
[86] 2023-05-22 (PCT/KR2023/006946)
[87] (WO2023/224450)
[30] KR (10-2022-0062249) 2022-05-20

[21] **3,232,606**
[13] A1
[51] **Int.Cl. A61K 31/4439 (2006.01) A61P 25/00 (2006.01) C07D 401/04 (2006.01) C07F 9/09 (2006.01)**
[25] EN
[54] **GPR52 MODULATOR COMPOUNDS**
[54] **COMPOSES MODULATEURS DE GPR52**
[72] WATSON, STEPHEN PAUL, GB
[72] SWAIN, NIGEL ALAN, GB
[72] O'BRIEN, MICHAEL ALISTAIR, GB
[71] HEPTARES THERAPEUTICS LIMITED, GB
[85] 2024-03-15
[86] 2022-09-15 (PCT/GB2022/052328)
[87] (WO2023/041909)
[30] GB (2113186.7) 2021-09-15

[21] **3,232,607**
[13] A1
[51] **Int.Cl. A61G 5/10 (2006.01) A47C 7/14 (2006.01) A47C 7/22 (2006.01) A47C 7/28 (2006.01) A61G 5/12 (2006.01)**
[25] EN
[54] **SEAT**
[54] **SIEGE**
[72] HUTTENHUIS, ALOYSIUS GERHARDUS, NL
[71] P.R. SELLA B.V., NL
[85] 2024-03-14
[86] 2022-09-09 (PCT/NL2022/050509)
[87] (WO2023/043307)
[30] NL (2029202) 2021-09-17

[21] **3,232,609**
[13] A1
[51] **Int.Cl. B63B 25/10 (2006.01)**
[25] EN
[54] **VAPOUR TRANSFER ASSEMBLY**
[54] **ENSEMBLE DE TRANSFERT DE VAPEUR**
[72] BO, RUNE, NO
[72] AASEN, HELGE K., NO
[71] GBA MARINE AS, NO
[85] 2024-03-14
[86] 2022-09-16 (PCT/NO2022/050213)
[87] (WO2023/048576)
[30] NO (20211132) 2021-09-21

[21] **3,232,610**
[13] A1
[51] **Int.Cl. G06N 3/0464 (2023.01) G06N 3/0455 (2023.01) G06N 3/09 (2023.01)**
[25] EN
[54] **CONVOLUTION ATTENTION NETWORK FOR MULTI-LABEL CLINICAL DOCUMENT CLASSIFICATION**
[54] **RESEAU D'ATTENTION A CONVOLUTION POUR CLASSIFICATION DE DOCUMENTS CLINIQUES MULTI-ETIQUETTES**
[72] LIU, YANG, US
[72] CHENG, HUA, US
[72] KLOPFER, RUSSELL I., US
[72] SCHAAF, THOMAS, US
[72] GORMLEY, MATTHEW R., US
[71] SOLVENTUM INTELLECTUAL PROPERTIES COMPANY, US
[85] 2024-03-15
[86] 2022-09-08 (PCT/IB2022/058478)
[87] (WO2023/042045)
[30] US (63/261,276) 2021-09-16

[21] **3,232,614**
[13] A1
[51] **Int.Cl. H04M 3/56 (2006.01) H04N 7/15 (2006.01)**
[25] EN
[54] **TERMINAL APPARATUS, OUTPUT METHOD, AND PROGRAM**
[54] **APPAREIL TERMINAL, PROCEDE DE SORTIE, ET PROGRAMME**
[72] SONODA, TAKASHI, JP
[72] KOSEKI, YUKA, JP
[71] NEC PLATFORMS, LTD., JP
[85] 2024-03-15
[86] 2022-08-10 (PCT/JP2022/030627)
[87] (WO2023/157342)
[30] JP (2022-023894) 2022-02-18

[21] **3,232,618**
[13] A1
[51] **Int.Cl. G16Z 99/00 (2019.01)**
[25] EN
[54] **AUTOMATIC SPRAY DISPENSER**
[54] **ATOMISEUR AUTOMATIQUE**
[72] DANVILLE, ROBERT C., US
[72] PRZYJEMSKI, ANDREW G., US
[71] STATION 10, LLC, US
[85] 2024-03-15
[86] 2021-09-17 (PCT/US2021/050790)
[87] (WO2023/043449)

[21] **3,232,619**
[13] A1
[51] **Int.Cl. B63B 25/16 (2006.01) F17C 6/00 (2006.01) F25J 1/00 (2006.01)**
[25] EN
[54] **BOIL-OFF GAS RE-LIQUEFYING SYSTEM AND SHIP COMPRISING SAME**
[54] **SYSTEME DE RELIQUEFACTION DE GAZ D'EVAPORATION ET NAVIRE LE COMPRENANT**
[72] NOH, YEEL YONG, KR
[72] PARK, JONG WAN, KR
[71] HD KOREA SHIPBUILDING & OFFSHORE ENGINEERING CO., LTD., KR
[85] 2024-03-15
[86] 2022-07-18 (PCT/KR2022/010464)
[87] (WO2023/043030)
[30] KR (10-2021-0125083) 2021-09-17

[21] **3,232,621**
[13] A1
[51] **Int.Cl. C12N 15/88 (2006.01) A61K 47/69 (2017.01) C07K 14/51 (2006.01)**
[25] EN
[54] **MRNA INDUCED EXPRESSION OF BONE MORPHOGENIC PROTEIN AND RECEPTOR AND METHODS RELATED THERETO**
[54] **EXPRESSION INDUITE PAR ARNM DE PROTEINE MORPHOGENIQUE OSSEUSE ET RECEPTEUR ET PROCEDES ASSOCIES**
[72] DAY, ALEXANDER, US
[72] MULLIN, BRADFORD, US
[71] DAY, ALEXANDER, US
[71] MULLIN, BRADFORD, US
[85] 2024-03-21
[86] 2022-10-03 (PCT/US2022/077467)
[87] (WO2023/060041)
[30] US (63/252,373) 2021-10-05

[21] **3,232,623**
[13] A1
[51] **Int.Cl. A61K 31/706 (2006.01) A61P 35/02 (2006.01)**
[25] EN
[54] **METHODS OF TREATING MYELODYSPLASTIC SYNDROMES WITH DECITABINE AND CEDAZURIDINE**
[54] **METHODES DE TRAITEMENT DE SYNDROMES MYELODYSPLASIQUES AVEC DE LA DECITABINE ET DE LA CEDAZURIDINE**
[72] KEER, HAROLD, US
[72] AZAB, MOHAMMAD, US
[72] HAO, YONG, CA
[71] OTSUKA PHARMACEUTICAL CO., LTD., JP
[85] 2024-03-21
[86] 2022-09-21 (PCT/US2022/076757)
[87] (WO2023/049731)
[30] US (63/246,547) 2021-09-21

[21] **3,232,624**
[13] A1
[51] **Int.Cl. G02B 6/44 (2006.01)**
[25] EN
[54] **MODULAR SPLICE TRAY SYSTEM FOR FIBER OPTIC CLOSURE**
[54] **SYSTEME DE PLATEAU D'EPISSURE MODULAIRE POUR FERMETURE DE FIBRE OPTIQUE**
[72] CLAS, TYLER, US
[72] WITTMEIER, DAVID, US
[71] AFL TELECOMMUNICATIONS LLC, US
[85] 2024-03-15
[86] 2022-09-13 (PCT/US2022/043317)
[87] (WO2023/043722)
[30] US (63/245,775) 2021-09-17
[30] US (63/306,275) 2022-02-03

[21] **3,232,625**
[13] A1
[51] **Int.Cl. G01V 1/28 (2006.01) G01V 1/30 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR MODELING A SUBSURFACE VOLUME USING TIME-LAPSE DATA**
[54] **SYSTEMES ET PROCEDES DE MODELISATION D'UN VOLUME DE SUBSURFACE A L'AIDE DE DONNEES PAR INTERVALLES DE TEMPS**
[72] HU, WENYI, US
[72] ABUBAKAR, ARIA, US
[72] DI, HAIBIN, US
[72] PHAN, SON D., US
[71] SCHLUMBERGER CANADA LIMITED, CA
[85] 2024-03-15
[86] 2022-09-15 (PCT/US2022/043663)
[87] (WO2023/043925)
[30] US (63/261,241) 2021-09-15

[21] **3,232,628**
[13] A1
[51] **Int.Cl. G06N 20/20 (2019.01) G06N 20/00 (2019.01) G06N 3/02 (2006.01)**
[25] EN
[54] **INTERACTIVE SYSTEM TO ASSIST A USER IN BUILDING A MACHINE LEARNING MODEL**
[54] **SYSTEME INTERACTIF D'AIDE D'UTILISATEUR A LA CONSTRUCTION D'UN MODELE D'APPRENTISSAGE MACHINE**
[72] RAGHAVAN, SHREYAS, IN
[72] SUBRAMANIAN, SHANKARRAM, IN
[72] KIERZKOWSKI, KAROLINA ANNA, US
[72] DEKA, JAHNAB KUMAR, IN
[72] LIN, CHANG, US
[71] THE DUN & BRADSTREET CORPORATION, US
[85] 2024-03-11
[86] 2022-09-14 (PCT/US2022/043432)
[87] (WO2023/043775)
[30] IN (202141036529) 2021-09-15
[30] IN (202241045305) 2022-08-08

[21] **3,232,629**
[13] A1
[51] **Int.Cl. A47F 7/00 (2006.01) A47B 81/00 (2006.01) A63C 11/00 (2006.01) B60R 9/00 (2006.01) B60R 9/12 (2006.01)**
[25] EN
[54] **DISPLAY AND STORAGE STAND FOR CROSS-COUNTRY SNOW SKI OR CROSS-COUNTRY ROLLER SKI**
[54] **PRESENTOIR ET SUPPORT DE RANGEMENT POUR SKI DE FOND SUR NEIGE OU SKI DE FOND A ROULETTES**
[72] HED, PAUL A., US
[72] HED, SAMANTHA E., US
[72] STRAND, JACOB S., US
[71] NOVUS-LACUNA LLC, US
[85] 2024-03-15
[86] 2022-09-15 (PCT/US2022/043671)
[87] (WO2023/043932)
[30] US (63/244,895) 2021-09-16

[21] **3,232,631**
[13] A1
[51] **Int.Cl. B81B 7/00 (2006.01) B81C 1/00 (2006.01) H01L 27/04 (2006.01) H04R 19/00 (2006.01)**
[25] EN
[54] **LOW VOLTAGE CAPACITIVE MICROMACHINED ULTRASONIC TRANSDUCER (CMUT) DESIGN AND MANUFACTURING FLOW**
[54] **TRANSDUCTEUR ULTRASONORE MICRO-USINE CAPACITIF BASSE TENSION**
[72] PANWAR, . BRISHBHAN SINGH, IN
[72] GUPTA, RAJAT, IN
[71] SENSONICS TRANSDUCERS PRIVATE LIMITED, IN
[85] 2024-03-21
[86] 2022-09-23 (PCT/IN2022/050851)
[87] (WO2023/047417)
[30] IN (202141043234) 2021-09-23

[21] **3,232,632**
[13] A1
[51] **Int.Cl. C07K 14/54 (2006.01) A61K 38/20 (2006.01) C07K 14/715 (2006.01) C12N 15/10 (2006.01)**
[25] EN
[54] **CAIX TARGETING IL-12 FUSION PROTEINS AND METHODS OF USE THEREOF**
[54] **PROTEINES DE FUSION DE L'IL-12 CIBLANT CAIX ET LEURS METHODES D'UTILISATION**
[72] BHATNAGAR, JAYA, IN
[72] GOSWAMI, ARVIND VITTAL, IN
[72] TRIPURANA, HARISH KUMAR, IN
[72] NAIR, PRADIP, IN
[72] SUBBARAMAN, RAMAKRISHNAN MELARKODE, IN
[72] KRISHN, SHIV RAM, IN
[72] BOREDDY, SRINIVAS REDDY, IN
[72] NAIR, RESHMI, IN
[72] VARSHNEY, AVANISH K., US
[72] TAN, SENG-LAI, US
[71] BICARA THERAPEUTICS INC., US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043762)
[87] (WO2023/043978)
[30] US (63/245,523) 2021-09-17

[21] **3,232,633**
[13] A1
[51] **Int.Cl. A61K 31/506 (2006.01) A61P 7/02 (2006.01)**
[25] EN
[54] **MILVEXIAN FOR PREVENTION AND TREATMENT OF THROMBOEMBOLIC DISORDERS**
[54] **MILVEXIAN POUR LA PREVENTION ET LE TRAITEMENT DE TROUBLES THROMBOEMBOLIQUES**
[72] STRONY, JOHN, US
[72] PETERS, GARY, US
[72] CHINTALA, MADHU, US
[72] NESSEL, CHRISTOPHER, US
[72] PERERA, LIYANAGE VIDYA, US
[72] LI, DANSHI, US
[72] LUETTGEN, JOSEPH M., US
[72] SEIFFERT, DIETMAR ALFRED, US
[72] JONES-BURTON, CHARLOTTE, US
[71] BRISTOL-MYERS SQUIBB COMPANY, US
[71] JANSSEN PHARMACEUTICA NV, BE
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043797)
[87] (WO2023/043999)
[30] US (63/245,522) 2021-09-17
[30] US (63/278,582) 2021-11-12

[21] **3,232,635**
[13] A1
[51] **Int.Cl. C12N 15/67 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR PRODUCING CIRCULAR POLYRIBONUCLEOTIDES**
[54] **COMPOSITIONS ET PROCEDES DE PRODUCTION DE POLYRIBONUCLEOTIDES CIRCULAIRES**
[72] DUDKIN, VADIM, US
[72] PAEK, KI YOUNG, US
[72] DE BOER, ALEXANDRA SOPHIE, US
[72] NELSON, JENNIFER A., US
[71] FLAGSHIP PIONEERING INNOVATIONS VI, LLC, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043808)
[87] (WO2023/044006)
[30] US (63/245,354) 2021-09-17

[21] **3,232,636**
[13] A1
[51] **Int.Cl. C05D 1/00 (2006.01) C05G 3/40 (2020.01) C05G 5/10 (2020.01) C05D 3/00 (2006.01) C05D 5/00 (2006.01) C05D 9/02 (2006.01) C05G 1/00 (2006.01)**
[25] EN
[54] **NANO-CHELATED COMPLEXES**
[54] **COMPLEXES NANO-CHELATES**
[72] EINOLLLAHI, BEHROUZ MOHAMMAD, IR
[71] EINOLLLAHI, MOHSEN BEHROUZ, IR
[71] OSMAN, OMAR EL- FAROUK, AD
[71] EINOLLLAHI, BEHROUZ MOHAMMAD, IR
[85] 2024-03-21
[86] 2022-09-22 (PCT/EP2022/076413)
[87] (WO2023/046851)
[30] LU (LU500680) 2021-09-23

[21] **3,232,641**
[13] A1
[51] **Int.Cl. A61K 48/00 (2006.01) C12N 15/11 (2006.01) C12N 15/113 (2010.01) C12N 15/63 (2006.01) C12Q 1/68 (2018.01)**
[25] EN
[54] **LIVER-SPECIFIC EXPRESSION CASSETTES, VECTORS AND USES THEREOF FOR EXPRESSING THERAPEUTIC PROTEINS**
[54] **CASSETTES D'EXPRESSION SPECIFIQUES DU FOIE, VECTEURS ET LEURS UTILISATIONS POUR EXPRIMER DES PROTEINES THERAPEUTIQUES**
[72] KEENAN, JESSICA, LYNN, US
[72] MONDS, RUSSELL, US
[72] MAJUMDAR, ELIZABETH, US
[72] CAO, JICONG, US
[71] GENERATION BIO CO., US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/043884)
[87] (WO2023/044059)
[30] US (63/245,013) 2021-09-16

[21] **3,232,642**
[13] A1
[51] **Int.Cl. F16K 17/04 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR REDUCING SIMMER IN A SAFETY RELIEF VALVE**
[54] **SYSTEMES ET PROCEDES DE REDUCTION DE MIJOTAGE DANS SOUPAPE DE SURETE**
[72] KALYANASUNDARAM, VISHWA, US
[72] KULKARNI, NARENDRA ARUN, IN
[71] EMERSON AUTOMATION SOLUTIONS FINAL CONTROL US LP, US
[85] 2024-03-15
[86] 2022-09-19 (PCT/US2022/043964)
[87] (WO2023/044099)
[30] US (63/245,452) 2021-09-17

[21] **3,232,644**
[13] A1
[51] **Int.Cl. A61B 18/04 (2006.01) A61B 18/12 (2006.01) A61B 18/14 (2006.01) A61N 1/00 (2006.01) A61N 5/06 (2006.01)**
[25] EN
[54] **SKIN CARE ASSEMBLY**
[54] **ENSEMBLE SOIN DE LA PEAU**
[72] YU, FEI, CN
[72] PAN, YUPING, CN
[71] SHENZHEN ULIKE SMART ELECTRONICS CO., LTD, CN
[85] 2024-03-21
[86] 2022-08-19 (PCT/CN2022/113780)
[87] (WO2023/045655)
[30] CN (202111124323.8) 2021-09-24

[21] **3,232,645**
[13] A1
[51] **Int.Cl. B01D 53/26 (2006.01)**
[25] EN
[54] **ENHANCED MOISTURE CONTROL DEVICES FOR THE PRESERVATION OF PRODUCTS IN CLOSED ENVIRONMENTS**
[54] **DISPOSITIFS AMELIORES DE REGULATION DE L'HUMIDITE POUR LA CONSERVATION DE PRODUITS DANS DES ENVIRONNEMENTS FERMES**
[72] O'SHEA, TINA M., US
[72] LILLEY, JUSTIN W., US
[72] NGUYEN, JOHN T., US
[72] ESSE, ROBERT L., US
[72] DEVRIES, JONATHAN W., US
[72] RICE, BRIAN, US
[71] BOVEDA INC., US
[85] 2024-03-15
[86] 2022-09-19 (PCT/US2022/043985)
[87] (WO2023/044106)
[30] US (63/245,316) 2021-09-17

[21] **3,232,646**
[13] A1
[51] **Int.Cl. A61B 5/1455 (2006.01) A61B 5/00 (2006.01) A61B 5/145 (2006.01) A61B 5/15 (2006.01) A61B 5/20 (2006.01) A61B 10/00 (2006.01)**
[25] EN
[54] **SYSTEM AND METHOD FOR IN SITU MEASURING AND COLLECTING SAMPLES OF ANALYTE CONCENTRATION IN BODILY FLUIDS**
[54] **SYSTEME ET PROCEDE DE MESURE ET DE COLLECTE IN SITU D'ECHANTILLONS DE CONCENTRATION D'ANALYTE DANS DES FLUIDES CORPORELS**
[72] PAUNESCU, ALEXANDRU, US
[71] JOHNSON & JOHNSON CONSUMER INC., US
[85] 2024-03-15
[86] 2021-09-20 (PCT/US2021/071511)
[87] (WO2023/043478)
[30] US (17/447,947) 2021-09-17

[21] **3,232,647**
[13] A1
[51] **Int.Cl. B01J 20/16 (2006.01)**
[25] EN
[54] **PRODUCT THAT ABSORBS HYDROGEN SULPHIDE**
[54] **PRODUIT ABSORBANT L'ACIDE SULFHYDRIQUE**
[72] GELI PONS, RAMON, ES
[72] MORENO GUERRERO, CARMEN, ES
[72] MURILLO GARCIA, NAZARET, ES
[72] HERNANDEZ SICILIA, JERONIMO, ES
[71] GREENKEEPER IBERIA, S.L., ES
[85] 2024-03-21
[86] 2022-10-20 (PCT/ES2022/070669)
[87] (WO2023/067225)
[30] ES (P202130994) 2021-10-22

[21] **3,232,648**
[13] A1
[51] **Int.Cl. A61K 38/00 (2006.01) C12N 15/88 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND METHODS FOR ENHANCED PROTEIN PRODUCTION**
[54] **COMPOSITIONS ET PROCEDES POUR UNE PRODUCTION AMELIOREE DE PROTEINES**
[72] KHANDHAR, AMIT PRAFUL, US
[72] BERUBE, BRYAN, US
[72] KRIEGER, KYLE, US
[72] ERASMUS, JESSE HONG-SAE, US
[72] GULATI, GAURAV, US
[72] SIMPSON, ADRIAN, US
[71] HDT BIO CORP., US
[85] 2024-03-21
[86] 2022-09-21 (PCT/US2022/076820)
[87] (WO2023/056202)
[30] US (63/247,113) 2021-09-22

[21] **3,232,649**
[13] A1
[51] **Int.Cl. C08J 11/10 (2006.01) C10L 1/04 (2006.01)**
[25] EN
[54] **CHEMOLYTIC UPGRADING OF LOW-VALUE MACROMOLECULE FEEDSTOCKS TO HIGHER-VALUE FUELS AND CHEMICALS**
[54] **VALORISATION CHIMIOLYTIQUE DE CHARGES MACROMOLECULAIRES DE FAIBLE VALEUR EN DES COMBUSTIBLES ET PRODUITS CHIMIQUES DE VALEUR PLUS ELEVEE**
[72] TRYGSTAD, W. MARCUS, US
[72] JHAWAR, ANIL K., CA
[71] ADURO CLEAN TECHNOLOGIES, CA
[85] 2024-03-21
[86] 2022-06-16 (PCT/IB2022/000333)
[87] (WO2023/057810)
[30] US (17/494,360) 2021-10-05

[21] **3,232,650**
[13] A1
[51] **Int.Cl. H01F 38/28 (2006.01) G01R 15/18 (2006.01) G01R 35/02 (2006.01) H01F 27/40 (2006.01) H01F 27/42 (2006.01)**
[25] EN
[54] **SELF-TUNING CURRENT TRANSFORMER**
[54] **TRANSFORMATEUR DE COURANT A AUTO-REGLAGE**
[72] AUSTIN, MICHEAL M., US
[72] BROWN, KODY SHOOK, US
[71] VUTILITY, INC., US
[85] 2024-03-15
[86] 2022-09-20 (PCT/US2022/044147)
[87] (WO2023/044164)
[30] US (63/261,401) 2021-09-20

[21] **3,232,652**
[13] A1
[51] **Int.Cl. H04W 4/029 (2018.01)**
[25] EN
[54] **POSITIONING METHOD, APPARATUS, AND SYSTEM**
[54] **PROCEDE, APPAREIL ET SYSTEME DE POSITIONNEMENT**
[72] LI, YONGCUI, CN
[72] NI, HUI, CN
[72] ZHANG, WANQIANG, CN
[71] HUAWEI TECHNOLOGIES CO., LTD., CN
[85] 2024-03-21
[86] 2022-09-01 (PCT/CN2022/116607)
[87] (WO2023/056809)
[30] CN (202111173124.6) 2021-10-08

[21] **3,232,653**
[13] A1
[51] **Int.Cl. C07C 50/28 (2006.01) A61K 31/12 (2006.01) A61K 31/122 (2006.01) C07C 43/23 (2006.01) C07C 49/753 (2006.01) C07C 69/16 (2006.01) C07C 69/18 (2006.01) C07C 69/28 (2006.01) C07C 69/30 (2006.01) C07C 225/20 (2006.01)**
[25] EN
[54] **CANNABIGEROQUINONE COMPOUNDS, COMPOSITIONS INCLUDING SUCH COMPOUNDS, AND USES OF SUCH COMPOUNDS AND COMPOSITIONS**
[54] **COMPOSES DE CANNABIGEROQUINONE, COMPOSITIONS COMPRENANT DE TELS COMPOSES, ET UTILISATIONS DE TELS COMPOSES ET DE TELLES COMPOSITIONS**
[72] GANGWAR, SANJEEV, US
[72] MILLER, GUY, US
[71] JUVA LIFE, INC., US
[85] 2024-03-15
[86] 2022-10-04 (PCT/US2022/045677)
[87] (WO2023/059640)
[30] US (63/252,921) 2021-10-06

[21] **3,232,654**
[13] A1
[51] **Int.Cl. G06F 11/34 (2006.01) G06Q 10/10 (2023.01) G06F 9/455 (2018.01) G06F 11/30 (2006.01) G06F 11/32 (2006.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR AN ENTERPRISE COMPUTING PLATFORM**
[54] **SYSTEMES ET PROCEDES POUR PLATEFORME INFORMATIQUE D'ENTREPRISE**
[72] BARHOUMEH, SAM, US
[72] TANGARAJ, KARTHIK, US
[72] PRABHUSWAMY, NAGESH, US
[71] SIX.ONE, LLC, US
[85] 2024-03-15
[86] 2022-08-15 (PCT/US2022/074956)
[87] (WO2023/044213)
[30] US (17/447,791) 2021-09-15
[30] US (17/447,797) 2021-09-15

[21] **3,232,656**
[13] A1
[51] **Int.Cl. C07D 473/32 (2006.01) A61K 31/52 (2006.01)**
[25] EN
[54] **CRYSTAL FORM OF IMIDAZOLINONE DERIVATIVE**
[54] **FORME CRISTALLINE D'UN DERIVE D'IMIDAZOLINONE**
[72] XU, XUEZHEN, CN
[72] LEI, FEIQUAN, CN
[72] HE, LVXUE, CN
[72] WEI, YONGGANG, CN
[72] SUN, YI, CN
[71] CHENGDU BAIYU PHARMACEUTICAL CO., LTD., CN
[85] 2024-03-21
[86] 2022-09-23 (PCT/CN2022/120890)
[87] (WO2023/046072)
[30] CN (202111112867.2) 2021-09-23

[21] **3,232,657**
[13] A1
[51] **Int.Cl. A61K 31/121 (2006.01) A61K 9/107 (2006.01) A61K 31/704 (2006.01) A61K 47/34 (2017.01) A61P 35/00 (2006.01)**
[25] EN
[54] **NANOPARTICLES FOR CANCER TREATMENT**
[54] **NANOPARTICULES POUR LE TRAITEMENT DU CANCER**
[72] RACHMAN, ILYA, US
[72] MORRIS, GABRIEL, US
[71] IMMIX BIOPHARMA, INC., US
[85] 2024-03-21
[86] 2022-09-27 (PCT/US2022/044948)
[87] (WO2023/049530)
[30] US (63/261,730) 2021-09-27

[21] **3,232,658**
[13] A1
[51] **Int.Cl. A61K 9/107 (2006.01) A61K 39/00 (2006.01) A61K 39/12 (2006.01) A61P 31/14 (2006.01) C07K 16/10 (2006.01) C12N 15/86 (2006.01)**
[25] EN
[54] **RNA VACCINES AGAINST INFECTIOUS DISEASES**
[54] **VACCINS A ARN CONTRE DES MALADIES INFECTIEUSES**
[72] REED, STEVEN GREGORY, US
[72] CARTER, DARRICK ALBERT, US
[72] KHANDHAR, AMIT PRAFUL, US
[72] DUTHIE, MALCOLM S., US
[72] BERGLUND, LARS PETER ASKEL, US
[72] ERASMUS, JESSE, US
[72] BERUBE, BRYAN, US
[72] ARCHER, JACOB FREEMAN, US
[71] HDT BIO CORP., US
[85] 2024-03-21
[86] 2022-01-24 (PCT/US2022/013516)
[87] (WO2023/048760)
[30] US (63/247,175) 2021-09-22
[30] US (63/297,498) 2022-01-07

[21] **3,232,661**
[13] A1
[51] **Int.Cl. G06T 7/73 (2017.01)**
[25] EN
[54] **METHOD AND SYSTEM FOR OPTIMIZING A WAREHOUSE**
[54] **PROCEDE ET SYSTEME D'OPTIMISATION D'UN ENTREPOT**
[72] PETERSON, CAPM SYRYS SAM, US
[72] RENE, GABRIEL JOSEPH BRADLEY, US
[72] SWANSON, STEVEN AARON, US
[72] TSCHANTZ, ALEC DANIEL DUNSMOIR, GB
[72] ESLAMI, AIDIN, US
[72] SAFDER, MOHAMMED NADEEM, US
[72] POOLE, CHARLES DRAKE, US
[72] SPIELBERGER, JOEL ABRAHAM, US
[72] BHATT, MRUDUL BINDU, GB
[72] SUTTON, SAM RUARIDH, GB
[72] COHEN, JAMES ALEXANDER, GB
[71] VERSES TECHNOLOGIES USA INC., US
[71] PETERSON, CAPM SYRYS SAM, US
[71] RENE, GABRIEL JOSEPH BRADLEY, US
[71] SWANSON, STEVEN AARON, US
[71] TSCHANTZ, ALEC DANIEL DUNSMOIR, GB
[71] ESLAMI, AIDIN, US
[71] SAFDER, MOHAMMED NADEEM, US
[71] POOLE, CHARLES DRAKE, US
[71] SPIELBERGER, JOEL ABRAHAM, US
[71] BHATT, MRUDUL BINDU, GB
[71] SUTTON, SAM RUARIDH, GB
[71] COHEN, JAMES ALEXANDER, GB
[85] 2024-03-21
[86] 2022-09-21 (PCT/US2022/044275)
[87] (WO2023/049197)
[30] US (63/360,286) 2021-09-21

[21] **3,232,662**
[13] A1
[51] **Int.Cl. B65D 77/20 (2006.01)**
[25] EN
[54] **BASE STRUCTURE, KIT OF PARTS AND A METHOD**
[54] **STRUCTURE DE BASE, KIT DE PIECES ET PROCEDE**
[72] HARRISON, KEITH, GB
[71] PAR-PAK EUROPE LIMITED, GB
[85] 2024-03-21
[86] 2022-09-07 (PCT/GB2022/052276)
[87] (WO2023/047085)
[30] GB (2113565.2) 2021-09-23

[21] **3,232,663**
[13] A1
[51] **Int.Cl. H04L 67/60 (2022.01) H04L 67/00 (2022.01) H04L 67/55 (2022.01)**
[25] EN
[54] **METHOD, APPARATUS AND SYSTEM FOR SUBSCRIPTION MANAGEMENT**
[54] **PROCEDE, APPAREIL ET SYSTEME DE GESTION D'ABONNEMENTS**
[72] BAKER, ANDRE, US
[71] BGC PARTNERS, L.P., US
[85] 2024-03-21
[86] 2022-10-04 (PCT/US2022/077494)
[87] (WO2023/060052)
[30] US (17/495,203) 2021-10-06

[21] **3,232,664**
[13] A1
[51] **Int.Cl. C07K 14/71 (2006.01) C12N 5/0781 (2010.01) C12N 5/0783 (2010.01) C12N 5/0784 (2010.01) A61K 35/17 (2015.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/715 (2006.01) C07K 19/00 (2006.01)**
[25] EN
[54] **SWITCH RECEPTORS USING IL-9 SIGNALING DOMAINS**
[54] **RECEPTEURS DE COMMUTATION UTILISANT DES DOMAINES DE SIGNALISATION IL-9**
[72] CONNOLLY, JOHN, US
[72] PARKER, SEAN, US
[71] PARKER INSTITUTE FOR CANCER IMMUNOTHERAPY, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/076612)
[87] (WO2023/044457)
[30] US (63/245,661) 2021-09-17

[21] **3,232,665**
[13] A1
[51] **Int.Cl. A01N 63/27 (2020.01) G01N 1/20 (2006.01)**
[25] EN
[54] **PSEUDOMONAS ATACAMENSIS CECT 30419 WHICH IMPROVES PLANT PRODUCTION AND STIMULATES SECONDARY METABOLISM IN PLANTS**
[54] **PSEUDOMONAS ATACAMENSIS CECT 30419 AMELIORANT LA PRODUCTION VEGETALE ET STIMULANT LE METABOLISME SECONDAIRE DE PLANTES**
[72] GUTIERREZ ALBANCHEZ, ENRIQUE, ES
[72] HORCHE TRUEBA, IGNACIO, ES
[72] RAMOS SOLANO, BEATRIZ, ES
[72] GUTIERREZ MANERO, FRANCISCO JAVIER, ES
[72] LUCAS GARCIA, JOSE ANTONIO, ES
[71] BIOBAB R&D, S.L., ES
[85] 2024-03-21
[86] 2022-09-19 (PCT/ES2022/070592)
[87] (WO2023/047005)
[30] ES (P202130881) 2021-09-21

[21] **3,232,666**
[13] A1
[51] **Int.Cl. H01B 17/38 (2006.01) H01B 17/62 (2006.01) H01F 27/40 (2006.01)**
[25] EN
[54] **APPARATUS AND METHODS OF PREVENTING POWER OUTAGES**
[54] **APPAREIL ET PROCEDES DE PREVENTION DE PANNES DE COURANT**
[72] MCHENRY, LARRY, US
[71] POWER GRID PROFESSIONALS INC, US
[85] 2024-03-21
[86] 2022-09-21 (PCT/IB2022/058944)
[87] (WO2023/047316)
[30] US (63/246,783) 2021-09-21
[30] US (63/271,210) 2021-10-24
[30] US (63/374,747) 2022-09-06
[30] US (17/933,997) 2022-09-21

[21] **3,232,668**
[13] A1
[51] **Int.Cl. C12N 15/62 (2006.01) C12N 5/0781 (2010.01) C12N 5/0783 (2010.01) C12N 5/0784 (2010.01) A61K 35/17 (2015.01) A61K 38/00 (2006.01) A61P 35/00 (2006.01) C07K 14/705 (2006.01) C07K 14/71 (2006.01) C07K 14/715 (2006.01) C07K 19/00 (2006.01) C12N 5/10 (2006.01) C12N 15/63 (2006.01)**
[25] EN
[54] **SWITCH RECEPTORS USING IL-9 SIGNALING DOMAINS**
[54] **RECEPTEURS DE COMMUTATION UTILISANT DES DOMAINES DE SIGNALISATION D'IL-9**
[72] CONNOLLY, JOHN, US
[72] PARKER, SEAN, US
[72] GARCIA, KENAN CHRISTOPHER, US
[71] PARKER INSTITUTE FOR CANCER IMMUNOTHERAPY, US
[71] THE BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY, US
[85] 2024-03-15
[86] 2022-09-16 (PCT/US2022/076618)
[87] (WO2023/044461)
[30] US (63/245,661) 2021-09-17

[21] **3,232,670**
[13] A1
[51] **Int.Cl. B01L 3/00 (2006.01)**
[25] EN
[54] **A MICROFLUIDIC ARRANGEMENT**
[54] **AGENCEMENT MICROFLUIDIQUE**
[72] MIKAELIAN, DAVID, BE
[72] JONES, BENJAMIN, BE
[72] FIORENTINO, GIUSEPPE, BE
[71] MIDIAGNOSTICS NV, BE
[85] 2024-03-21
[86] 2022-09-23 (PCT/EP2022/076502)
[87] (WO2023/046890)
[30] EP (21198939.7) 2021-09-24

[21] **3,232,672**
[13] A1
[51] **Int.Cl. A61B 5/0531 (2021.01)**
[25] EN
[54] **METHODS AND APPARATUSES FOR DETERMINATION OF HOT FLASHES**
[54] **PROCEDES ET APPAREILS POUR LA DETERMINATION DE BOUFFEES DE CHALEUR**
[72] TAYLOR, GEOFF, US
[72] DEGTYARYOV, VITALIY, CA
[71] 1625986 ONTARIO LIMITED, CA
[85] 2024-03-21
[86] 2022-08-15 (PCT/IB2022/000464)
[87] (WO2023/026094)
[30] US (63/235,953) 2021-08-23

[21] **3,232,678**
[13] A1
[51] **Int.Cl. A61B 17/11 (2006.01)**
[25] FR
[54] **ANCILLARY DEVICE AND KIT FOR ANASTOMOSIS**
[54] **DISPOSITIF ANCILLAIRE ET KIT POUR ANASTOMOSE**
[72] ABOU TAAM, SALAM, FR
[71] EASY VASCULAR CURE, FR
[85] 2024-03-21
[86] 2022-09-21 (PCT/EP2022/076238)
[87] (WO2023/046759)
[30] EP (21198058.6) 2021-09-21

[21] **3,232,680**
[13] A1
[51] **Int.Cl. G03B 9/06 (2021.01)**
[25] EN
[54] **NON-ROTATING ELLIPTICAL IRIS DIAPHRAGM**
[54] **DIAPHRAGME A IRIS ELLIPTIQUE SANS ROTATION**
[72] MONTAGNE, LAURENT, FR
[71] THALES, FR
[85] 2024-03-21
[86] 2022-09-15 (PCT/EP2022/075613)
[87] (WO2023/046563)
[30] FR (FR2109913) 2021-09-21

[21] **3,232,684**
[13] A1
[51] **Int.Cl. H01M 10/04 (2006.01) H01M 10/613 (2014.01) H01M 10/647 (2014.01) H01M 10/65 (2014.01) H01M 10/653 (2014.01) H01M 10/6555 (2014.01) H01M 50/119 (2021.01) H01M 50/121 (2021.01) H01M 50/124 (2021.01)**
[25] EN
[54] **ELECTROCHEMICAL STACK AND METHOD OF ASSEMBLY THEREOF**
[54] **EMPILEMENT ELECTROCHIMIQUE ET SON PROCEDE D'ASSEMBLAGE**
[72] SLAGLE, RICHARD ANTHONY, US
[72] MIKOLAJCZAK, CELINA, US
[71] QUANTUMSCAPE BATTERY, INC., US
[85] 2024-03-21
[86] 2022-09-27 (PCT/US2022/044883)
[87] (WO2023/049507)
[30] US (63/261,727) 2021-09-27
[30] US (63/299,700) 2022-01-14
[30] US (63/313,051) 2022-02-23
[30] US (63/334,635) 2022-04-25
[30] US (63/392,093) 2022-07-25

[21] **3,232,685**
[13] A1
[51] **Int.Cl. A61B 1/307 (2006.01)**
[25] EN
[54] **IMPACT-DURING-SUCTION SURGICAL URETEROSCOPE**
[54] **URETEROSCOPE CHIRURGICAL A IMPACT LORS DE L'ASPIRATION**
[72] CHENG, YUE, CN
[72] CHEN, QINGYE, CN
[72] WU, HAILIANG, CN
[72] FANG, LI, CN
[72] HUANG, JUNJUN, CN
[72] XIE, GUOHAI, CN
[72] SHAN, JIAN, CN
[71] NINGBO XINWELL MEDICAL TECHNOLOGY CO., LTD., CN
[71] THE FIRST AFFILIATED HOSPITAL OF NINGBO UNIVERSITY, CN
[85] 2024-03-21
[86] 2022-09-08 (PCT/CN2022/117841)
[87] (WO2023/045770)
[30] CN (202111096813.1) 2021-09-22

[21] **3,232,687**
[13] A1
[51] **Int.Cl. A61B 1/307 (2006.01)**
[25] EN
[54] **VISUAL URETEROSCOPE**
[54] **URETEROSCOPE VISUEL**
[72] SHAN, JIAN, CN
[72] CHENG, YUE, CN
[72] HUANG, JUNJUN, CN
[72] CHEN, QINGYE, CN
[72] WU, HAILIANG, CN
[72] FANG, LI, CN
[72] LI, QIANG, CN
[71] NINGBO XINWELL MEDICAL TECHNOLOGY CO., LTD., CN
[71] THE FIRST AFFILIATED HOSPITAL OF NINGBO UNIVERSITY, CN
[85] 2024-03-21
[86] 2022-09-08 (PCT/CN2022/117842)
[87] (WO2023/045771)
[30] CN (202111102333.1) 2021-09-22

[21] **3,232,689**
[13] A1
[51] **Int.Cl. C07D 333/06 (2006.01)**
[25] EN
[54] **INHIBITORS OF MOLLUSCUM CONTAGIOSUM INFECTION AND METHODS USING THE SAME**
[54] **INHIBITEURS DE L'INFECTION PAR LE MOLLUSCUM CONTAGIOSUM ET METHODES LES UTILISANT**
[72] RICCIARDI, ROBERT P., US
[72] NUTH, MANUNYA, US
[72] GUAN, HANCHENG, US
[72] REITZ, ALLEN B., US
[72] PARKER, MICHAEL H., US
[72] BAUGH, SIMON DAVID PETER, US
[72] SCOTT, RICHARD W., US
[72] STROBEL, ERIC, US
[71] THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, US
[85] 2024-03-21
[86] 2022-09-27 (PCT/US2022/077058)
[87] (WO2023/049919)
[30] US (63/248,670) 2021-09-27

[21] **3,232,690**
[13] A1
[51] **Int.Cl. C07C 237/10 (2006.01) A61K 47/18 (2017.01) C07C 275/14 (2006.01) C07C 323/41 (2006.01) C07C 327/06 (2006.01) C07D 295/13 (2006.01)**
[25] EN
[54] **MULTI-MOTIF DENDRONS AND THEIR SUPRAMOLECULAR STRUCTURES AND USES THEREOF**
[54] **DENDRONS A MOTIFS MULTIPLES, LEURS STRUCTURES SUPRAMOLECULAIRES ET LEURS UTILISATIONS**
[72] KHAN, OMAR FIZAL, CA
[72] TILSTRA, GRAYSON, CA
[72] MANNING, ALANNA MARGARET, CA
[72] LAU, YAN MING ANSON, CA
[72] COUTURE-SENECAL, JULIEN, CA
[71] THE GOVERNING COUNCIL OF THE UNIVERSITY OF TORONTO, CA
[85] 2024-03-21
[86] 2022-11-29 (PCT/CA2022/051745)
[87] (WO2023/092242)
[30] US (63/283,588) 2021-11-29
[30] US (63/398,936) 2022-08-18

[21] **3,232,691**
[13] A1
[51] **Int.Cl. C22B 3/16 (2006.01) C22B 3/44 (2006.01)**
[25] EN
[54] **COMPOSITIONS AND PROCESSES FOR THE EXTRACTION OF METALS USING NON-AQUEOUS SOLVENTS**
[54] **COMPOSITIONS ET PROCEDES POUR L'EXTRACTION DE METAUX A L'AIDE DE SOLVANTS NON AQUEUX**
[72] HARRIS, ROBERT, GB
[72] JENKIN, GAWEN, GB
[71] ARGO NATURAL RESOURCES LIMITED, GB
[85] 2024-03-21
[86] 2022-09-26 (PCT/GB2022/052433)
[87] (WO2023/047139)
[30] GB (2113800.3) 2021-09-27

[21] **3,232,692**
[13] A1
[51] **Int.Cl. A23L 31/00 (2016.01) A61K 36/06 (2006.01) A61P 25/00 (2006.01) B01D 11/00 (2006.01) B01D 11/02 (2006.01) B01J 8/10 (2006.01)**
[25] EN
[54] **CHILLED JUICE EXTRACTION PROCESSES AND PRODUCTS USING PSYCHEDELIC AND FUNCTIONAL MUSHROOMS**
[54] **PROCEDES D'EXTRACTION DE JUS GLACE ET PRODUITS UTILISANT DES CHAMPIGNONS PSYCHEDELIQUES ET FONCTIONNELS**
[72] GIRARDI, JOSEPH, US
[71] GIRARDI, JOSEPH, US
[85] 2024-03-21
[86] 2022-09-28 (PCT/US2022/045124)
[87] (WO2023/055860)
[30] US (63/249,541) 2021-09-28

[21] **3,232,694**
[13] A1
[51] **Int.Cl. A61K 8/41 (2006.01) A61K 8/24 (2006.01)**
[25] EN
[54] **TOPICAL NOURISHING/ANTIMICROBIAL COMPOSITIONS**
[54] **COMPOSITIONS NOURRISSANTES/ANTIMICROBIENNES TOPIQUES**
[72] MANSOURI, ZAHRA, US
[71] LABORATORY SKIN CARE, INC., US
[85] 2024-03-21
[86] 2022-09-20 (PCT/US2022/044133)
[87] (WO2023/049119)
[30] US (63/246,572) 2021-09-21

[21] **3,232,698**
[13] A1
[51] **Int.Cl. F41H 1/02 (2006.01) A41D 1/04 (2006.01) A45F 5/02 (2006.01) F41H 5/013 (2006.01)**
[25] EN
[54] **BALLISTIC VEST**
[54] **GILET PARE-BALLES**
[72] PITTMAN, DAVID LYNN, US
[72] O'BRIEN, SCOTT TIMOTHY, US
[72] MACKLER, TODD LAVIK WILSON, US
[72] DUNCAN, JAMES A., US
[72] O'BRIEN, TIM, US
[71] SAFARILAND, LLC, US
[85] 2024-03-21
[86] 2022-11-03 (PCT/US2022/048850)
[87] (WO2023/086265)
[30] US (63/276,314) 2021-11-05

[21] **3,232,699**
[13] A1
[51] **Int.Cl. H04W 24/02 (2009.01) H04W 24/08 (2009.01) H04W 24/10 (2009.01)**
[25] EN
[54] **RADIO NETWORK NODE, USER EQUIPMENT AND METHODS PERFORMED THEREIN**
[54] **NOUD DE RESEAU RADIO, EQUIPEMENT UTILISATEUR ET PROCEDES MIS EN OUVRE DANS CELUI-CI**
[72] RAMACHANDRA, PRADEEPA, SE
[72] ORSINO, ANTONINO, FI
[72] BELLESCHI, MARCO, SE
[71] TELEFONAKTIEBOLAGET LM ERICSSON (PUBL), SE
[85] 2024-03-21
[86] 2022-09-19 (PCT/SE2022/050820)
[87] (WO2023/055268)
[30] US (63/250,279) 2021-09-30

[21] **3,232,706**
[13] A1
[51] **Int.Cl. G06F 40/58 (2020.01)**
[25] EN
[54] **SYSTEMS AND METHODS FOR PROVIDING REAL-TIME AUTOMATED LANGUAGE TRANSLATIONS**
[54] **SYSTEMES ET PROCEDES POUR FOURNIR DES TRADUCTIONS DE LANGUE AUTOMATISEES EN TEMPS REEL**
[72] MOY, TONY CHAN SION, US
[71] VONAGE BUSINESS INC., US
[85] 2024-03-21
[86] 2022-09-23 (PCT/US2022/044628)
[87] (WO2023/049417)
[30] US (63/248,152) 2021-09-24

[21] **3,232,707**
[13] A1
[51] **Int.Cl. A61K 9/08 (2006.01) G16H 70/40 (2018.01) A61K 39/00 (2006.01) A61K 39/395 (2006.01) A61K 47/10 (2017.01) A61M 5/28 (2006.01) A61P 1/04 (2006.01) A61P 1/14 (2006.01) A61P 37/06 (2006.01) C07K 16/28 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **DRUG FORMULATION OF ANTI-HLA-DQ2.5 ANTIBODY**
[54] **FORMULATION DE MEDICAMENT D'ANTICORPS ANTI-HLA-DQ2.5**
[72] ARAI, KENGO, JP
[72] HIRAYAMA, KAZUNORI, JP
[72] EGAMI, KIICHI, JP
[72] FUKUDA, MASAKAZU, JP
[71] CHUGAI SEIYAKU KABUSHIKI KAISHA, JP
[85] 2024-03-21
[86] 2022-10-06 (PCT/JP2022/037375)
[87] (WO2023/058705)
[30] JP (2021-166336) 2021-10-08
[30] JP (2022-042112) 2022-03-17

[21] **3,232,709**
[13] A1
[51] **Int.Cl. G06Q 10/06 (2023.01) G06Q 50/08 (2012.01)**
[25] EN
[54] **PREDICTIVE ESTIMATION OF AN AMOUNT OF COATING FOR A SURFACE COATING APPLICATION**
[54] **ESTIMATION PREDICTIVE D'UNE QUANTITE DE REVETEMENT POUR UNE APPLICATION DE REVETEMENT DE SURFACE**
[72] SIMONE, ANGELA, US
[72] STAUNTON, THOMAS J., US
[71] SWIMC LLC, US
[85] 2024-03-21
[86] 2022-09-27 (PCT/US2022/044860)
[87] (WO2023/055726)
[30] US (63/250,570) 2021-09-30

[21] **3,232,713**
[13] A1
[51] **Int.Cl. C03C 17/00 (2006.01) C03C 17/42 (2006.01)**
[25] EN
[54] **METHOD FOR APPLYING A PRIMER COATING TO GLASS CONTAINERS**
[54] **PROCEDE D'APPLICATION D'UN REVETEMENT PRIMAIRE SUR DES RECIPIENTS EN VERRE**
[72] CHISHOLM, BRIAN, US
[71] OWENS-BROCKWAY GLASS CONTAINER INC., US
[85] 2024-03-21
[86] 2022-09-21 (PCT/US2022/044252)
[87] (WO2023/049180)
[30] US (17/483,919) 2021-09-24

Canadian Divisional and Previously Unavailable Applications Open to Public Inspection

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,231,830**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS OF CONTROLLABLE NATURAL LANGUAGE GENERATION**
[54] **SYSTEMES ET PROCEDES DE GENERATION DE LANGAGE NATUREL COMMANDABLE**
[72] PELEG, BARAK, IL
[72] PADNOS, DAN, IL
[72] MORAG, AMNON, IL
[72] LUMBROSO, GILAD, IL
[72] SHOHAM, YOAV, IL
[72] GOSHEN, ORI, IL
[72] LENZ, BARAK, IL
[72] DAGAN, OR, IL
[71] AI21 LABS, IL
[22] 2020-07-13
[41] 2021-02-11
[62] 3,150,031
[30] US (62/882,732) 2019-08-05
[30] US (62/882,734) 2019-08-05
[30] US (62/943,493) 2019-12-04

[21] **3,231,845**
[13] A1
[51] **Int.Cl. C08G 79/04 (2006.01) C09B 69/10 (2006.01) C09K 11/06 (2006.01)**
[25] EN
[54] **ULTRA BRIGHT DIMERIC OR POLYMERIC FLUORESCENT AND COLORED DYES**
[54] **TEINTURES FLUORESCENTES ET COLOREES DIMERIQUES OU POLYMERIQUES ULTRA TRES CLAIRES**
[72] MATRAY, TRACY, US
[72] SINGH, SHARAT, US
[72] VANBRUNT, MICHAEL, US
[71] SONY GROUP CORPORATION, JP
[22] 2017-03-31
[41] 2017-10-05
[62] 3,018,564
[30] US (62/317,192) 2016-04-01

[21] **3,231,851**
[13] A1
[25] EN
[54] **FIELD-INSTALLABLE REFRIGERATED CABINET KIT, REFRIGERATED MERCHANDISER, AND METHODS OF USE**
[54] **KIT D'ARMOIRE REFRIGEREE POUVANT ETRE INSTALLE SUR SITE, PRESENTOIR REFRIGERE ET PROCEDES D'UTILISATION**
[72] FRIEND, JOHN, US
[72] FONTECCHIO, JOSEPH, US
[72] PIZZI, CHRISTIAN, US
[72] PESTKA, DANIEL, US
[71] TRUE MANUFACTURING COMPANY, INC., US
[22] 2021-09-23
[41] 2022-03-31
[62] 3,167,010
[30] US (63/082,805) 2020-09-24
[30] US (17/481,747) 2021-09-22

[21] **3,231,885**
[13] A1
[51] **Int.Cl. G01C 21/00 (2006.01)**
[25] EN
[54] **DEVICE AND METHOD FOR IMPROVING ROUTE PLANNING COMPUTING DEVICES**
[54] **DISPOSITIF ET PROCEDE D'AMELIORATION DE DISPOSITIFS INFORMATIQUES DE PLANIFICATION D'ITINERAIRE**
[72] FREED, ERIK S., US
[71] POLARIS INDUSTRIES INC., US
[22] 2017-09-15
[41] 2018-03-22
[62] 3,155,788
[30] US (15/267,942) 2016-09-16

[21] **3,231,895**
[13] A1
[25] EN
[54] **METHODS AND DEVICES FOR FUEL DISPENSER ELECTRONIC COMMUNICATION**
[54] **PROCEDES ET DISPOSITIFS DE COMMUNICATION ELECTRONIQUE DE DISTRIBUTEUR DE CARBURANT**
[72] FIEGLEIN, HENRY, US
[71] WAYNE FUELING SYSTEMS LLC, US
[22] 2017-06-14
[41] 2017-12-21
[62] 3,026,656
[30] US (15/182,201) 2016-06-14

[21] **3,231,903**
[13] A1
[25] EN
[54] **BODILY EMISSION ANALYSIS**
[54] **ANALYSE DE SUBSTANCE CORPORELLE**
[72] ATTAR, ISHAY, IL
[71] OUTSENSE DIAGNOSTICS LTD., IL
[22] 2016-02-25
[41] 2016-09-01
[62] 2,977,743
[30] US (62/120,639) 2015-02-25

[21] **3,231,911**
[13] A1
[25] EN
[54] **CROSS PRODUCT ENHANCED HARMONIC TRANSPOSITION**
[54] **TRANSPOSITION HARMONIQUE AMELIOREE DE PRODUIT D'INTERMODULATION**
[72] VILLEMOES, LARS, SE
[72] HEDELIN, PER, SE
[71] DOLBY INTERNATIONAL AB, IE
[22] 2010-01-15
[41] 2010-07-22
[62] 3,162,807
[30] US (61/145223) 2009-01-16

Demandes canadiennes apparentées par division et demandes mises à la disponibilité du public non disponibles auparavant

[21] **3,231,912**
[13] A1
[25] EN
[54] **IMAGE CLASSIFICATION SYSTEM**
[54] **SYSTEME DE CLASSIFICATION D'IMAGES**
[72] WEN, LI, US
[72] HUO, ZHANPENG, US
[72] JIANG, JINGYA, US
[71] EXPEDIA, INC., US
[22] 2020-06-04
[41] 2020-12-17
[62] 3,142,726
[30] US (16/440,859) 2019-06-13

[21] **3,231,921**
[13] A1
[25] EN
[54] **PERSONAL HYGIENE CAPSULE AND METHODS OF USING SAME**
[54] **CAPSULE D'HYGIENE PERSONNELLE ET METHODES D'UTILISATION**
[72] BHUSHAN, BHARAT, CA
[71] ALPHA CLEANTECH LABS INC., CA
[22] 2022-02-14
[41] 2023-08-09
[62] 3,201,357

[21] **3,231,936**
[13] A1
[25] EN
[54] **A SLIDER-SUSPENSION UNIT**
[54] **UN MODULE DE COULISSE-SUSPENSION**
[72] LIN, ZECAN, AU
[71] FUWA K HITCH (AUSTRALIA) PTY LTD, AU
[22] 2018-06-12
[41] 2018-12-26
[62] 3,007,871
[30] US (62/524,890) 2017-06-26

[21] **3,231,959**
[13] A1
[25] EN
[54] **PHASE ROTATION FOR IN-BAND SIGNAL GENERATION FOR NARROW BAND TRANSMISSION**
[54] **ROTATION DE PHASE POUR GENERATION DE SIGNAL INTRA-BANDE POUR TRANSMISSION EN BANDE ETROITE**
[72] RICO ALVARINO, ALBERTO, US
[72] HSU, CHUN-HAO, US
[72] WANG, XIAO FENG, US
[72] GAAL, PETER, US
[72] XIAO, LEI, US
[71] QUALCOMM INCORPORATED, US
[22] 2017-08-17
[41] 2018-02-22
[62] 3,160,990
[30] US (62/377,434) 2016-08-19
[30] US (15/445,263) 2017-02-28

[21] **3,231,962**
[13] A1
[25] EN
[54] **CABLING APPARATUSES AND SYSTEMS WITH LOW VOLTAGE DIGITAL CONNECTIVITY**
[54] **APPAREILS ET SYSTEMES DE CABLAGE A CONNECTIVITE NUMERIQUE BASSE TENSION**
[72] CRAWLEY, PETER, CA
[72] WHITE-CRAWLEY, LYNDA, CA
[72] CRAWLEY, STUART, CA
[72] CRAWLEY, GAVIN, CA
[71] PCC INTEGRATE INC., CA
[22] 2024-01-08
[41] 2024-03-12
[62] 3,225,216

[21] **3,231,967**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS RELATING TO DOCUMENT AND FASTENER IDENTIFICATION**
[54] **SYSTEMES ET PROCEDES SE RAPPORTANT A L'IDENTIFICATION DE DOCUMENTS ET D'ATTACHES**
[72] FIELDING, ALEX, US
[72] HALL, KEVIN C., US
[72] KNIGHT, KIRK H., US
[72] HURLEY, JENS JORDAN, US
[72] GRUBB, JONATHAN FLOYD, US
[72] HARTNAGLE, JOSEPH DAVID DILLS, US
[71] RIPCORD INC., US
[22] 2016-12-19
[41] 2017-06-22
[62] 3,008,480
[30] US (62/233,947) 2015-12-19
[30] US (62/233,938) 2015-12-19
[30] US (62/233,934) 2015-12-19

[21] **3,231,968**
[13] A1
[25] EN
[54] **MIST INHALER DEVICES**
[54] **DISPOSITIFS D'INHALATION DE BRUME**
[72] ALSHAIBA, SALEH GHANNAM ALMAZROUEI, AE
[72] BHATTI, SAJID, AE
[72] MACHOVEC, JEFF, AE
[72] LAMOUREUX, CLEMENT, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[22] 2020-12-15
[41] 2021-06-24
[62] 3,161,546
[30] IB (PCT/IB2019/060808) 2019-12-15
[30] IB (PCT/IB2019/060810) 2019-12-15
[30] IB (PCT/IB2019/060811) 2019-12-15
[30] IB (PCT/IB2019/060812) 2019-12-15
[30] EP (20168245.7) 2020-04-06
[30] EP (20168231.7) 2020-04-06
[30] EP (20168938.7) 2020-04-09

[21] **3,231,999**
[13] A1
[51] **Int.Cl. A47B 53/02 (2006.01) A47B 63/00 (2006.01) B65G 1/10 (2006.01) F16P 3/14 (2006.01)**
[25] EN
[54] **STORAGE SYSTEM**
[54] **SYSTEME DE STOCKAGE**
[72] VAN DER VELDEN, SILVESTER HELENA GERARDUS ROLAND, NL
[71] BRUYNZEEL STORAGE SYSTEMS, NL
[22] 2021-09-13
[41] 2022-03-16
[62] 3,130,540
[30] NL (2026479) 2020-09-16

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[21] **3,232,013**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR MODULAR CONSTRUCTION**
[54] **SYSTEMES ET PROCEDES DE CONSTRUCTION MODULAIRE**
[72] BOWRON, JULIAN L. W., CA
[71] VECTOR META INC., CA
[22] 2021-02-19
[41] 2021-08-26
[62] 3,167,181
[30] US (62/979,065) 2020-02-20

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[21] **3,232,015**
[13] A1
[51] **Int.Cl. A61M 16/00 (2006.01) A61M 16/04 (2006.01) A61M 16/08 (2006.01) A61M 16/10 (2006.01)**
[25] EN
[54] **VENTILATOR WITH INTEGRATED COUGH-ASSIST**
[54] **VENTILATEUR A ASSISTANCE A LA TOUX INTEGREE**
[72] CIPOLLONE, JOSEPH, US
[72] GAW, SHAN E., US
[71] VENTEC LIFE SYSTEMS, INC., US
[22] 2016-03-23
[41] 2016-09-29
[62] 2,980,306
[30] US (14/667,451) 2015-03-24
[30] US (14/667,480) 2015-03-24
[30] US (14/695,708) 2015-04-24
[30] US (14/749,397) 2015-06-24
[30] US (14/803,799) 2015-07-20
[30] US (14/819,165) 2015-08-05
[30] US (14/939,789) 2015-11-12

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[21] **3,232,020**
[13] A1
[25] EN
[54] **WAVEFRONT GLOBAL NAVIGATION SATELLITE SYSTEM AND INTERFERENCE SIMULATOR SYSTEMS AND METHODS OF USE THEREOF**
[54] **SYSTEME MONDIAL DE NAVIGATION PAR SATELLITES (FRONT D`ONDE), SYSTEMES DE SIMULATION D`INTERFERENCES ET METHODES D`UTILISATION**
[72] ILIE, LURIE, CA
[72] LE VEEL, PIERRE-MARIE, CA
[72] HAMEL, STEPHANE, CA
[72] MALO, SERGE, CA
[72] EDMOND, JULIEN, CA
[71] OROLIA CANADA INC., CA
[22] 2020-09-16
[41] 2021-03-27
[62] 3,093,266
[30] US (62/907,042) 2019-09-27
[30] US (16/837,706) 2020-04-01

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[21] **3,232,022**
[13] A1
[25] EN
[54] **METHODS OF MODULATING DRUG PLASMA LEVELS USING ERYTHROHYDROXYBUPROPION**
[54]
[72] TABUTEAU, HERRIOT, US
[71] ANTECIP BIOVENTURES II LLC, US
[22] 2015-05-01
[41] 2016-05-26
[62] 3,082,645
[30] US (14/550,618) 2014-11-21
[30] US (14/554,988) 2014-11-26
[30] US (14/555,085) 2014-11-26
[30] US (14/554,947) 2014-11-26
[30] US (14/602,177) 2015-01-21
[30] US (14/604,397) 2015-01-23
[30] US (14/617,624) 2015-02-09
[30] US (14/628,062) 2015-02-20

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[21] **3,232,030**
[13] A1
[25] EN
[54] **SYSTEM FOR NOTIFYING A COMMUNITY OF INTERESTED USERS ABOUT PROGRAMS OR SEGMENTS**
[54] **SYSTEME DE NOTIFICATION DE PROGRAMMES OU DE SEGMENTS A UNE COMMUNAUTE D'UTILISATEURS INTERESSES**
[72] DRUMMOND, MITCH B., US
[72] LEE, CHRISTOPHER WATSON, US
[72] MILAZZO, PAUL GEORGE, US
[71] ROVI GUIDES, INC., US
[22] 2010-09-17
[41] 2011-04-07
[62] 2,771,148
[30] US (12/568,967) 2009-09-29

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[21] **3,232,089**
[13] A1
[25] EN
[54] **TEMPERATURE-CONTROLLED DELIGNIFICATION OF BIOMASS**
[54] **DELIGNIFICATION DE BIOMASSE A TEMPERATURE CONTROLEE**
[72] WEISSENBERGER, MARKUS, CA
[72] YOUSSEF, EMHEMMED, CA
[72] PAGELS, MARKUS, CA
[71] SIXRING INC., CA
[22] 2022-06-16
[41] 2022-12-18
[62] 3,162,990
[30] CA (3,122,786) 2021-06-18

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[21] **3,232,098**
[13] A1
[25] EN
[54] **APPARATUS FOR REMOVING MOISTURE FROM PARTICULATE MATERIAL**
[54] **APPAREIL D'ELIMINATION D'HUMIDITE D'UN MATERIAU PARTICULAIRE**
[72] FOSS-SMITH, PATRICK, GB
[72] ANDERSON, PETER, GB
[71] COOMTECH LIMITED, GB
[22] 2017-11-02
[41] 2018-05-11
[62] 3,041,965
[30] GB (1618470.7) 2016-11-02

[21] **3,232,118**
[13] A1
[25] EN
[54] **SEQUENCE-DETECTION SYSTEM**
[54] **SYSTEME DE DETECTION DE SEQUENCE**
[72] MANDELL, JEFFREY G., US
[72] GUNDERSON, KEVIN L., US
[72] KEEHAN, MICHAEL GREGORY, US
[72] GARCIA, ERIN CHRISTINE, US
[72] GUNDLACH, JENS H., US
[71] ILLUMINA, INC., US
[22] 2018-09-14
[41] 2019-03-21
[62] 3,067,420
[30] US (62/559,202) 2017-09-15

[21] **3,232,127**
[13] A1
[25] EN
[54] **PYRIMIDOHETEROCYCLIC COMPOUNDS AND APPLICATION THEREOF**
[54] **COMPOSES PYRIMIDOHETEROCYCLIQUES ET LEUR APPLICATION**
[72] ZHANG, YANG, CN
[72] WU, WENTAO, CN
[72] ZHANG, JING, CN
[72] SUN, JIKUI, CN
[72] XU, YANGYANG, CN
[72] CHEN, ZHIJIAN, CN
[72] JIN, JOHN FENYU, CN
[72] CHEN, SHUHUI, CN
[71] D3 BIO (WUXI) CO., LTD., CN
[22] 2021-03-11
[41] 2021-09-16
[62] 3,171,365
[30] CN (202010172140.2) 2020-03-12
[30] CN (202010323035.4) 2020-04-22
[30] CN (202010953203.8) 2020-09-11
[30] CN (202011593642.9) 2020-12-29

[21] **3,232,181**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR ENDOSCOPIC VIDEO ENHANCEMENT, QUANTITATION AND SURGICAL GUIDANCE**
[54] **SYSTEME ET PROCEDE D'AMELIORATION, DE QUANTIFICATION ET DE GUIDAGE CHIRURGICAL DE VIDEO ENDOSCOPIQUE**
[72] RAUNIYAR, NIRAJ PRASAD, US
[72] RIKER, ROBERT J., US
[72] HARRAH, TIMOTHY PAUL, US
[71] BOSTON SCIENTIFIC SCIMED, INC., US
[22] 2020-08-27
[41] 2021-04-01
[62] 3,147,447
[30] US (62/904,408) 2019-09-23

[21] **3,232,241**
[13] A1
[25] EN
[54] **USE OF CANNABINOIDS IN THE TREATMENT OF EPILEPSY**
[54] **UTILISATION DE CANNABINOIDES DANS LE TRAITEMENT DE L'EPILEPSIE**
[72] GUY, GEOFFREY, GB
[72] WRIGHT, STEPHEN, GB
[72] MEAD, ALICE, GB
[72] DEVINSKY, ORRIN, US
[71] GW RESEARCH LIMITED, GB
[22] 2015-10-14
[41] 2016-04-21
[62] 2,963,208
[30] GB (1418171.3) 2014-10-14

[21] **3,232,248**
[13] A1
[25] EN
[54] **MASK ASSEMBLY AND ASSOCIATED METHODS**
[54]
[72] BROUNS, DERK SERVATIUS GERTRUDA, NL
[72] DE GRAAF, DENNIS, NL
[72] DE KRUIF, ROBERTUS CORNELIS MARTINUS, NL
[72] JANSSEN, PAUL, NL
[72] KRUIZINGA, MATTHIAS, NL
[72] NOTENBOOM, ARNOUD WILLEM, NL
[72] SMITH, DANIEL ANDREW, NL
[72] VERBRUGGE, BEATRIJS LOUISE MARIE-JOSEPH KATRIEN, NL
[72] WILEY. JAMES NORMAN, NL
[71] ASML NETHERLANDS B.V., NL
[22] 2016-02-01
[41] 2016-08-11
[62] 2,975,806
[30] US (62/111,380) 2015-02-03
[30] US (62/118,922) 2015-02-20
[30] US (62/270,330) 2015-12-21

[21] **3,232,258**
[13] A1
[25] EN
[54] **A HOOKAH DEVICE**
[54] **DISPOSITIF DE NARGUILE**
[72] ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, AE
[72] BHATTI, SAJID, AE
[72] MACHOVEC, JEFF, AE
[72] LAMOUREUX, CLEMENT, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[22] 2021-12-15
[41] 2022-06-15
[62] 3,161,555
[30] US (17/122,025) 2020-12-15
[30] US (17/220,189) 2021-04-01
[30] GB (2104872.3) 2021-04-06

[21] **3,232,265**
[13] A1
[25] EN
[54] **A HOOKAH DEVICE**
[54] **DISPOSITIF DE NARGUILE**
[72] ALSHAIBA SALEH GHANNAM ALMAZROUEI, MOHAMMED, AE
[72] BHATTI, SAJID, AE
[72] MACHOVEC, JEFF, AE
[72] LAMOUREUX, CLEMENT, AE
[71] SHAHEEN INNOVATIONS HOLDING LIMITED, AE
[22] 2021-12-15
[41] 2022-06-15
[62] 3,161,555
[30] US (17/122,025) 2020-12-15
[30] US (17/220,189) 2021-04-01
[30] GB (2104872.3) 2021-04-06

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[21] **3,232,280**
[13] A1
[25] EN
[54] **REAL-TIME VISUAL FEEDBACK FOR USER POSITIONING WITH RESPECT TO A CAMERA AND A DISPLAY**
[54] **RETROACTION VISUELLE EN TEMPS REEL POUR LE POSITIONNEMENT D'UN UTILISATEUR PAR RAPPORT A UNE CAMERA ET A UN AFFICHAGE**
[72] BUD, ANDREW, GB
[72] NEWELL, ANDREW, GB
[72] PALMER, JOE, GB
[71] IPROOV LIMITED, GB
[22] 2015-11-20
[41] 2016-05-26
[62] 3,003,550
[30] US (62/082,665) 2014-11-21

---

[21] **3,232,302**
[13] A1
[25] EN
[54] **MITER GAUGE ASSEMBLY**
[54] **ENSEMBLE JAUGE A ONGLETS**
[72] SMITH, DARRIN E., US
[71] JESSEM TOOL CORPORATION, CA
[22] 2020-03-27
[41] 2020-09-29
[62] 3,077,079
[30] US (16/370601) 2019-03-29

---

[21] **3,232,305**
[13] A1
[25] EN
[54] **MITER GAUGE ASSEMBLY**
[54] **ENSEMBLE JAUGE A ONGLETS**
[72] SMITH, DARREN E., CA
[71] JESSEM TOOL CORPORATION, CA
[22] 2020-03-27
[41] 2020-09-29
[62] 3,077,079
[30] US (16/370601) 2019-03-29

---

[21] **3,232,319**
[13] A1
[25] EN
[54] **AN END PLATE FOR A PERFORATING GUN ASSEMBLY**
[54]
[72] SULLIVAN, SHELBY L., US
[72] HOLMBERG, AARON, US
[72] KLEINSCHMIT, NICHOLAS NOEL, US
[71] XCONNECT, LLC, US
[22] 2022-03-04
[41] 2023-06-06
[62] 3,151,264
[30] US (17/543,121) 2021-12-06

---

[21] **3,232,320**
[13] A1
[25] EN
[54] **METHODS AND COMPOSITIONS FOR GAMMA-GLUTAMYL CYCLE MODULATION**
[54] **PROCEDES ET COMPOSITIONS POUR UNE MODULATION DE CYCLE GAMMA-GLUTAMYLE**
[72] RUBIN, DAVID, US
[72] RUBIN, EYAL, US
[71] CANCER RESEARCH TECHNOLOGY, LLC, US
[22] 2014-03-15
[41] 2014-09-18
[62] 2,909,510
[30] US (61/801,709) 2013-03-15

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[21] **3,232,321**
[13] A1
[25] EN
[54] **ENCODING APPARATUS, ENCODING METHOD, DECODING APPARATUS, DECODING METHOD, AND PROGRAM**
[54] **APPAREIL DE CODAGE, METHODE DE CODAGE, APPAREIL DE DECODAGE, METHODE DE DECODAGE ET PROGRAMME**
[72] YAMAMOTO, YUKI, JP
[72] CHINEN, TORU, JP
[72] TSUJI, MINORU, JP
[71] SONY CORPORATION, JP
[22] 2016-06-03
[41] 2016-12-22
[62] 2,989,099
[30] JP (2015-123589) 2015-06-19
[30] JP (2015-196494) 2015-10-02

---

[21] **3,232,326**
[13] A1
[51] **Int.Cl. H04L 67/60 (2022.01) H04L 67/02 (2022.01)**
[25] EN
[54] **CONSTRUCTION METHOD, RUN METHOD, AND APPARATUS FOR APPLICATION**
[54] **PROCEDE ET APPAREIL DE CONSTRUCTION, ET PROCEDE ET APPAREIL D'EXECUTION D'UN PROGRAMME D'APPLICATION**
[72] ZHANG, PING, CN
[72] BEN, HONGMEI, CN
[72] CHEN, SIJIA, CN
[71] 10353744 CANADA LTD., CA
[22] 2020-07-30
[41] 2021-04-29
[62] 3,158,367
[30] CN (201911007759.1) 2019-10-22

---

[21] **3,232,330**
[13] A1
[25] EN
[54] **ANCHOR SYSTEMS FOR LIFTING AN ELECTROLYTIC VESSEL**
[54] **SYSTEMES D'ANCRES POUR LEVER UNE CUVE ELECTROLYTIQUE**
[72] DUFRESNE, ROBERT, CA
[71] PULTRUSION TECHNIQUE INC., CA
[22] 2019-01-29
[41] 2019-08-01
[62] 3,088,024
[30] US (62/623,281) 2018-01-29

[21] **3,232,332**
[13] A1
[25] EN
[54] **LIGHTNING STRIKE DISPERSION FOR COMPOSITE AIRCRAFT STRUCTURES**
[54] **DISPERSION DE LA FOUDRE DESTINEE A DES STRUCTURES D'AERONEF COMPOSITES**
[72] SCHMIDT, RYAN, US
[71] GOODRICH CORPORATION, US
[22] 2017-04-11
[41] 2017-12-17
[62] 2,964,402
[30] US (15/186,116) 2016-06-17

---

[21] **3,232,429**
[13] A1
[25] EN
[54] **SYSTEMS AND METHODS FOR APPLYING DOTS OF DIFFERENT ADHESIVES TO MOVING ROOFING SHINGLE STOCK**
[54] **SYSTEMES ET METHODES POUR APPLIQUER DES POINTS D`ADHESIFS DIFFERENTS POUR DEPLACER UNE PILE DE BARDEAUX DE RECOUVREMENT**
[72] SVEC, JAMES A., US
[72] LEITCH, OLAN T., US
[71] BUILDING MATERIALS INVESTMENT CORPORATION, US
[22] 2021-03-05
[41] 2021-09-05
[62] 3,111,131
[30] US (62/985,607) 2020-03-05

---

[21] **3,232,506**
[13] A1
[25] EN
[54] **INDIRECT CONTROL OF CONTENT CONSUMPTION IN AN APPLIANCE**
[54] **CONTROLE INDIRECT DE LA CONSOMMATION DU CONTENU DANS UN APPAREIL**
[72] HOLDEN, DANIAL, US
[72] MCMAHON, MICHAEL D., US
[72] BROOME, ALLEN, US
[72] MAO, WEIDONG, US
[72] GILSON, ROSS, US
[71] COMCAST CABLE COMMUNICATIONS, LLC, US
[22] 2012-12-06
[41] 2013-06-06
[62] 3,162,112
[30] US (13/312,475) 2011-12-06

---

[21] **3,232,515**
[13] A1
[25] EN
[54] **TRANSMISSION CONTROL METHOD, SOUNDING REFERENCE SIGNAL TRANSMISSION METHOD, TERMINAL, BASE STATION AND MEDIUM**
[54]
[72] GAO, BO, CN
[72] LI, YU NGOK, CN
[72] LU, ZHAOHUA, CN
[72] YAO, KE, CN
[72] ZHANG, SHUJUAN, CN
[71] ZTE CORPORATION, CN
[22] 2019-08-06
[41] 2020-02-13
[62] 3,109,005
[30] CN (201810899214.5) 2018-08-08

---

[21] **3,232,598**
[13] A1
[25] EN
[54] **SYSTEM AND METHOD FOR AUTONOMOUS OPERATION OF A MACHINE**
[54] **SYSTEME ET PROCEDE DE FONCTIONNEMENT AUTONOME D'UNE MACHINE**
[72] SCHLACKS, WILLIAM J., IV, US
[72] ADAMS, BRIAN, US
[72] DIANICS, JAMES, US
[72] GRAVES, IAN, US
[72] MARTIN, ROB, US
[72] PFURSICH, SCOTT, US
[71] EQUIPMENTSHARE.COM INC., US
[22] 2020-04-06
[41] 2020-10-08
[62] 3,136,140
[30] US (62/829,986) 2019-04-05
[30] US (62/987,062) 2020-03-09

---

[21] **3,232,651**
[13] A1
[51] **Int.Cl. C07K 16/28 (2006.01) C07K 14/715 (2006.01) C12N 15/13 (2006.01)**
[25] EN
[54] **ANTIBODIES TO CANINE INTERLEUKIN-4 RECEPTOR ALPHA**
[54] **ANTICORPS CONTRE LE RECEPTEUR ALPHA DE L'INTERLEUKINE 4 CANINE**
[72] MORSEY, MOHAMAD, US
[72] ZHANG, YUANZHENG, US
[71] INTERVET INTERNATIONAL B.V., NL
[22] 2016-04-01
[41] 2016-10-06
[62] 2,980,087
[30] US (62/142,108) 2015-04-02
[30] US (62/269,486) 2015-12-18
[30] US (62/310,250) 2016-03-18

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